

SAFETY & DATA SHEET MANUAL

REVISED SEPTEMBER 2020

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	,	1	

SoySeal

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

DISTRIBUTED BY C2 Products, Inc.

ADDRESS 15222 Herriman Blvd. Noblesville, IN

TRADE NAME The Bean

SYNONYMS Water-dispersed expelled soy oil for concrete/deck sealant

2. COMPONENTS AND HAZARD CLASSIFICATION

Contains expelled soy oil, nonionic surfactant, and water Patented formulation

Contains no chemicals subject to SARA 302 or 313 reporting.

3. PHYSICAL DATA

BOILING POINT (F) ng SPECIFIC GRAVITY 0.99 @ 73F

VAPOR DENSITY n/a MELTING POINT ng SOLUBILITY IN WATER Dispersible - yellow milky emulsion VAPOR PRESSURE N/A

APPERANCE AND ODOR Odor is of soybean oil, appears as yellow milky emulsion

4. FIRE AND EXPLOSION DATA

FLASH POINT >500F (PM) AUTOIGNITION TEMPERATURE >500F

(TEST METHOD)

EXTINGUISHING MEDIA Foam, dry chemical, carbon dioxide, sand/earth

SPECIAL FIRE FIGHTING PROCEDURES None

UNUSUAL FIRE AND None expected.

EXPLOSION HAZARD None

5. HEALTH HAZARD INFORMATION

SLIPPAGE Slippery, may cause falls if walked on.

FIRST AID

EYES: Flush eyes with large amounts of water for at least 15 minutes. Seek medical aid.

SKIN: Remove contaminated clothing. Wash with soap and water. If irritation occurs, seek medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately.

Oxygen should only be administered by trained personnel.

INGESTION: If swallowed, call a physician. ONLY induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.

NATURE OF HAZARD:

EYE: Irritation may occur with exposure to concentrated vapors or contact with product. May cause corneal

inflammation.

SKIN: Repeated or prolonged contact may cause reddening and scaling of the skin (dermatitis) if hypoallergenic.

INHALATION: This material is a negligible hazard due to its low volatility. If vapor is present in high concentrations, irritation

to upper respiratory tract may occur.

INGESTION: Low order of toxicity. No hazard by this route in normal use. Ingestion of large amounts maybe

irritating to gastrointestinal tract.

EXPOSURE LIMITS None established for this product.

TOXICITY DATA

This product has not been specifically tested.

6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:

Stable under normal conditions for 12 months. Reacts slowly with air or oxygen. Heating increases oxidation potential. INCOMPATIBILITY: Can react with strong oxidizers, inorganic acids, and halogens.

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The Bean

Material Safety Data Sheet

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Should not occur.

7. SPILL OR LEAK PROCEDURES

Dike and contain the spilled material. Floor will be extremely slippery. Collect liquid with an inert absorbent and transfer to a container for reuse or disposal.

WASTE CLASSIFICATION: If discarded in its purchased form, this product is not a RCRA hazardous waste. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, and mixtures may change the classification.

8. SPECIAL PROTECTION INFORMATION

VENTILATION RECOMMENDATIONS Use only with adequate ventilation.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

EYES: Chemical safety glasses.

SKIN: Use rubber or plastic, solvent resistant gloves.

RESPIRATORY PROTECTION: Use organic vapors mask when handling this product above 120 degrees F.

9. SHIPPING, TRANSFER AND STORAGE

SHIPPING INFORMATION

ICAO/IATA DESCRIPTION: This product is not a dangerous good as defined by IATA for air transportation.

DOT DESCRIPTION: Non hazardous liquid

TRANSPORTATION AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD: Precautions should be taken to prevent electrostatic discharge.

USUAL SHIPPING CONTAINERS: Tank cars, tank trucks, and drums, pails.

STORAGE/TRANSPOST TEMPERATURE: Ambient

STORAGE/TRANSPORT PRESSURE: Ambient

VISCOSITY: >15 cSt @ 100F

BULK QUANTITIES: Provide diking to contain potential spills.

HANDLING AND STORAGE MATERIALS AND COATINGS

TANKS: Use containers that will not rust. This is a water-based product.

THE ABOVE DATA IS BASED ON TESTS AND EXPERIENCE WHICH C2 PRODUCTS. (C2) BELIEVES RELIABLE AND ARE SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. C2 PRODUCTS, INC. PRODUCTS ARE INTENDED FOR SALE TO AGRICULTURAL AND COMMERCIAL CUSTOMERS. C2 REQUESTS THAT CUSTOMERS INSPECT AND TEST OUR PRODUCTS BEFORE USE AND SATISFY THEMSELVES AS TO CONTENTS AND SUITABILITY. C2 DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA AND NOTHING CONTAINED THERIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY C2 WITH RESPECT TO THE DATA, THE PRODUCT DESCRIBED, OR THEIR USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO C2.



SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Form Mixture

Trade Name SILCOSEAL 2000 F

Product Code SS2F

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Industrial. For professional use only.

1.2.2 Uses Advised Against

No additional information available

1.3 Details of the supplier of the safety data sheet

Manufacturer

NOX-CRETE, INC.

1444 SOUTH 20TH STREET

OMAHA, NE 68108 Tel: 402-341-2080 Fax: 402-341-9752

E-Mail: corporate@nox-crete.com
Web Site: www.nox-crete.com

1.4 Emergency telephone number

Emergency Number Chemtrec (800) 424-9300

Chemtrec Outside of U.S. 703-527-3887

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Flam Liq. 3	H226
Acute Tox. 4 (oral)	H302
Asp. Tox. 1	H304
Acute Tox. 4 (dermal)	H312
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Acute Tox. 4 (inhalation)	H332
resp. irrit. STOT SE 3	H335
STOT SE 3 drowsiness	H336
Carc. 2	H351
STOT RE 2	H373

Full text of H phrases see section 16

Adverse physiochemical, human health and environmental effects

No additional information available

2.2 Label elements

Hazard pictograms







Signal word Warning



to concrete problems

SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Hazard statements H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eve irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (inhalation)

H373 - May cause damage to organs through prolonged or

repeated exposure.

Precautionary statements

Prevention: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and

understood

P210 - Keep away from heat/sparks/open flames/hot surfaces-No

smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/light/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash exposed area's thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection

Response: P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses if present and easy to do so -

continue rinsing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P331 - Do NOT induce vomiting

P333+P313 - If skin irritation or rash occurs: Get medical

advice/attention

P362 - Take off contaminated clothing and wash before reuse.

P337+P313 - If eye irritation persists: Get medical advice/attention

P403+P235 - Store in a well ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations.

2.3 Other hazards None known

Full text of H and P phrases: see section 16

Storage:

Disposal:

Section 3. Composition / information on ingredients



to concrete problems

SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

3.1 Substances

Not applicable

3.2 Mixture

Name	Product identifier	%
Xylene	1330-20-7	< 6.0
Petroleum Distillate	Trade Secret	Trade Secret
Solvent Naphtha	Trade Secret	Trade Secret
Butanol	71-36-3	< 3.0
Butene, homopolymer	Trade Secret	Trade Secret
Ethylbenzene	100-41-4	< 1.7
Cumene	98-82-8	< 0.2
1,2,4-Trimethylbenzene	95-63-6	<1.2

Pursuant to 29CFR 1910.1200(i) the specific chemical identity (and / or) concentration is being withheld as Trade Secret, while all health and safety properties and effects are included in the SDS.

Section 4. First aid measures

41	Description	of first	aid	measures
4.1	De2CHDHOH	UI III SL	aıu	IIIEasules

First-aid measures general Get medical advice/attention if you feel unwell. Never give anything by

mouth to an unconscious person.

breathing seek a healthcare professional immediately. In all cases of doubt, or when symptoms persist, seek medical advice. Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a Poison Center or doctor/physician.

First-aid measures after skin contact If skin irritation persists, seek medical attention. Remove or take off

immediately all contaminated clothing. Rinse skin with water or shower.

Wash off immediately with soap and plenty of water.

First-aid measure after eye contact When contact lenses are worn, remove if possible. In case of contact

with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes while holding eyelids apart. Get medical attention immediately.

First-aid measures after ingestion Rinse mouth. DO NOT induce vomiting. Get medical attention

immediately.

4.2 Most important symptoms and effects, acute and delayed

Symptoms/injuries after inhalation May cause irritation to the respiratory tract. Overexposure to vapors may

result in headache, nausea, drowsiness or dizziness.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact

May cause skin irritation or burning sensation

May cause eye irritation or injury

Symptoms/injuries after ingestion May cause severe irritation or burns to the mucous membrane of the

mouth, throat, esophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5. Firefighting measures



SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

5.1 Extinguishing media

Suitable extinguishing mediaDry chemical, foam, carbon dioxide **Unsuitable extinguishing media**Do not use heavy water stream

5.2 Special hazards arising from the substance or mixture

ReactivityThermal decomposition products may cause a health hazard.

5.3 Advice for firefighters

Firefighting instructions

This material releases vapors when heated above

ambient temperatures. Vapors can cause a flash fire. Use water spray

or fog to cool exposed containers.

Protective equipment for firefighters Firefighters should always wear self-contained breathing apparatus

(SCBA) and full protective gear when fighting any chemical fire.

Other information On heating or burning harmful gasses/vapors may be released.

This product may cause the floor to become slippery.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Eliminate any ignition sources. Dike or impound spilled material. Take

proper precautions to ensure your own health and safety before

attempting spill control or cleanup.

<u>6.11 Protective Equipment</u> Equip cleanup crew with proper protective equipment.

6.2 Environmental precautions Prevent entry to sewers and public waters.

Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upSoak up spills with inert solids, such as clay or diatomaceous earth.

Collect into vapor tight containers and dispose of properly.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measuresWash hands and other exposed areas with soap and water before

eating, drinking or smoking and when leaving work. Provide good ventilation in work areas to prevent formation of vapor. When not in use

keep containers tightly closed. Avoid breathing vapor or mist.

Hygiene measures Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store in accordance with local regulations. Store in original container in

a cool well ventilated place away from heat, sparks and open flame. Keep containers tightly closed until ready for use. **Keep from freezing**.

Incompatible materials Strong oxidizing agents. Strong acids or bases

Storage temperature Store in a cool dry environment away from sources of ignition.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Occupational exposure limits ACGIH TLV (United States)
Xylene	TWA: 100 ppm 8 hours
Petroleum Distillate	TWA: 400 ppm 8 hours
Solvent Naphtha	TWA: 19 ppm 8 hours
Butanol	TWA: 20 ppm 8 hours
Butene, homopolymer	Not Established
Ethylbenzene	TWA: 20 ppm 8 hours



SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Cumene	TWA: 50 ppm 8 hours		
8.2 Exposure controls			
Appropriate engineering controls	Use with adequate ventilation to keep product vapor concentrations below specified TLV		
Eye and face protection	Chemical goggles and/or face shields are recommended to prevent potential eye contact, irritation or injury.		
Skin protection	Wear chemical resistant gloves and appropriate protective clothing and boots as required to prevent skin contact. Wash exposed skin frequently with soap and water. Soiled clothing should be laundered before reuse.		
Respiratory protection	General room ventilation is normally adequate. Avoid breathing the product mist or vapors. The use of an appropriate respirator is recommended whenever the airborne concentrations exceed the TLV.		

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Milky liquid Odor Mild Odor

Odor Threshold No data available PH No data available **Melting point** No data available Freezing point No data available **Boiling point** 94 C (200 F)

Flash point 35 C 95 F **PMCC** Relative evaporation rate (butyl acetate=1) No data available

Flammability (solid, gas) 49 CFR Appendix H test confirms product is a non-sustained

> burning material. No data available

Upper/lower explosive limits Vapor pressure No data available Vapor density No data available

Relative density (Specific gravity) 0.97 Kg per Liter 8.1 Lbs per Gallon

Solubility Water: Miscible No data available Partition coefficient n-octanol/water **Auto-ignition temperature** Not applicable **Viscosity** No data available **VOC** content Less than 600 g/l

Section 10. Stability and reactivity

No additional information available 10.1 Reactivity 10.2 Chemical stability Stable under normal conditions

10.3 Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4 Conditions to avoid Extreme high or low temperatures. Avoid freezing.

10.5 Incompatible materials Strong acids, bases and oxidizers

10.6 Hazardous decomposition products carbon monoxide, carbon dioxide, various hydrocarbon derivatives

Section 11. Toxicology information

11.1 Information on toxicological effects

Acute toxicity No adverse effects expected under intended use.

Irritation/Corrosion May cause skin irritation Skin

> **Eves** May causes serious eye irritation and damage.

Respiration or skin sensitization May cause respiratory irritation

Germ cell mutagenicity No data available

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SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Carcinogenicity IARC

Xylene	3
Ethylbenzene	2B
Cumene	2B

- 2B Limited evidence in humans and less than sufficient evidence in animals.
- 3 Inadequate in humans and inadequate or limited in animals

Reproductive toxicity

No data available

Specific target organ toxicity

Single exposure
Repeated exposure
Aspiration hazard
No data available
No data available
No data available

Section 12. Ecological information

12.1 EcotoxicityNo data available12.2 Persistence and degradabilityNo data available12.3 Bioaccumulative potentialNo data available12.4 Mobility in soilNo data available

12.5 Other adverse effects Avoid release to the environment

SECTION 13. Disposal Considerations

13.1 Waste treatment methods The user of this material has the responsibility to dispose of unused

material, residues and containers in compliance with all applicable local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

SECTION 14. Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

49 CFR Appendix H test confirms product is a non-sustained burning material.

14.1UN numberNot applicable14.2UN proper shipping nameNot applicable14.3Transport hazard class(es)Not applicable14.4Packing groupNot applicable

14.5 Environmental hazardsNo additional information available14.6 Special precautions for userNo additional information available

14.7 Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code No additional information available

14.8 Transport in bulk according to

CFR 49 173.15 Not applicable

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.2 USA Regulations



SILCOSEAL 2000 F

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Section 313

Contains the following ingredients at or above the reporting level requirements of Section 313. This information must be included in all SDS's copied or distributed for this material.

CHEMICAL	CAS #	MAX WEIGHT %
Xylene	1330-20-7	5.8
Ethylbenzene	100-41-4	1.7
1,2,4-Trimethylbenzene	95-63-6	1.2
Butanol	71-36-3	2.8

TSCA

DSL

All ingredients are listed or exempted

All ingredients are listed or exempted.

PROPOSITION 65



WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov."

15.1.3 Canada Regulations

This SDS has been prepared according to the hazard criteria of the *Hazardous Products Regulation* (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16. Other information

Date of issue	7-15-2020
Version	2.6
Number	38
Date of previous issue	8-14-2018
Preparer	Nox-Crete, Inc.

Reference Documentation

The information and recommendations contained herein are, to the best of Nox-Crete, Inc.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Nox-Crete, Inc. to ensure that this document is the most current available from Nox-Crete, Inc. The information and recommendations are offered for the buyer's/user's consideration and examination. It is the buyer's/user's responsibility to satisfy themselves that the product is suitable for the intended use. Appropriate warnings and safe-handling procedures should be provided to all handlers and users. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Since the information provided herein may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and buyer/user may rely thereon only at their risk. We have made no effort to censor or to conceal deleterious aspects of this product. Further, since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the health and/or safety precautions we have suggested will be adequate for all individuals and /or situations involving its handling or use. Likewise, we make no guarantee or warranty of any kind that the use or disposal of this product is in compliance with all federal, state or local laws. It is the obligation of each buyer/user of the product mentioned herein to determine and comply with the requirements of all applicable statutes. If buyer/user repackages this product, it is the buyer's/user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Nox-Crete, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with this product. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part is not permitted.



SILCOSEAL 2000 F

Safety Data Sheet

Flam Liq. 3

Asp. Tox. 1

Skin Irrit. 2

Eye Irrit. 2

Carc. 2

STOT RE 2

Acute Tox. 4 (oral)

Acute Tox. 4 (dermal)

Acute Tox. 4 (inhalation)

STOT SE 3 drowsiness

STOT SE 3 resp. irrit.

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Full text of H and P phrases

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer (inhalation)

H373 - May cause damage to organs through prolonged or repeated exposure

P201- Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat/sparks/open flames/hot surfaces-No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/light/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash exposed area's thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P331 - Do NOT induce vomiting

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse.

P337+P313 - If eye irritation persists: Get medical advice/attention

P403+P235 - Store in a well ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.



SpecTilt 100

Version 1

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecTilt 100

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Tilt-Up Cure/Bond Breaker

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108

Business Phone: (816) 968-5600

Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Current Revision: December 18, 2014
Date of Last Revision: October 2, 2006

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a red / clear liquid with a characteristic hydrocarbon odor.

<u>Health Hazards</u>: May cause skin, eye, and respiratory system irritation. May be an aspiration hazard. Inhalation may cause drowsiness or dizziness.

Flammability Hazards: This product is a flammable liquid with a flash point of 104°F (40°C).

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated,

however release may cause long term adverse environmental effects.



US DOT Symbols



EU and GHS Symbols

Signal Word Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

232-489-3 is listed in Annex I 649-345-00-4

265-199-0 is listed in Annex I 649-356-00-4

201-148-0 is listed in Annex I 603-108-00-1



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Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Stoddard Solvent, Aromatic Hydrocarbon,

Isobutyl Alcohol

2.2 Label Elements:

Hazard Statements:

Precautionary Statements:

GHS Hazard Classifications: Flammable Liquid Category 3

Skin Irritation Category 2 Serious Eye irritation Category 2

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1B

STOT - SE Category 3 (Respiratory System,

Central Nervous System) Aspiration Hazard Category 1 Chronic Aquatic Toxicity Category 2

H226 Flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation H340 May cause genetic defects

H350 May cause cancer

H335 May cause respiratory irritation P210 Keep away from heat/sparks/open

flames/hot surfaces. No smoking. P233 Keep container tightly closed.

P240 Ground/Bond container and receiving

equipment.

P241 Use explosion-proof

electrical/ventilating/lighting equipment. P242 Use only non-sparking tools.

P243 Take precautionary measures against

static discharge.

P280 Wear protective gloves/eye

protection/face protection.

P264 Wash thoroughly after handling. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions

have been read and understood.

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated

P273 Avoid release to the environment.

Response Statements: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P370+P378 In case of fire: Use dry sand, dry chemical or alcoholresistant foam for extinction. P302+P352 IF ON SKIN: Wash with plenty of

water.

P321 Specific treatment (see supplemental first

aid instructions on this label).

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P332+P313 If skin irritation occurs: Get medical

advice/attention

P364 Wash clothing before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337+P313 If eye irritation persists: Get

medical advice/attention.

P308+P313 IF exposed or concerned: Get

medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON Center/doctor if you feel

unwell.

P301+P310 IF SWALLOWED: Immediately call

a POISON Center/doctor. P331 Do NOT induce vomiting.

P391 Collect spillage.

Storage Statements: P403+P235 Store in a well-ventilated place.

Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness. Skin Contact: May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

Eye Contact: Vapours and direct contact to the eyes may be irritating.

Ingestion: May cause lung damage if aspirated.

Chronic: Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Skin, Respiratory System, Lungs

Chronic: Skin

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Stoddard Solvent	< 70%	8052-41-3	232-489-3	Carc. 1B, Muta. 1B, STOT RE 1, ASP. Tox. 1
Aromatic Hydrocarbon	< 20%	64742-95-6	265-199-0	Flam. Liq. 3; Skin Irrit. 2; Carc. 1B, Muta. 1B; STOT SE 3; ASP. Tox. 1, Aquatic Chronic 2



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Isobutyl Alcohol < 5% 78-83-1 201-148-0 Flam. Liq. 3; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to do.

Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin, eyes, and respiratory

system may cause irritation. May cause headaches, drowsiness, or

dizziness. Aspiration hazard.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: No

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class



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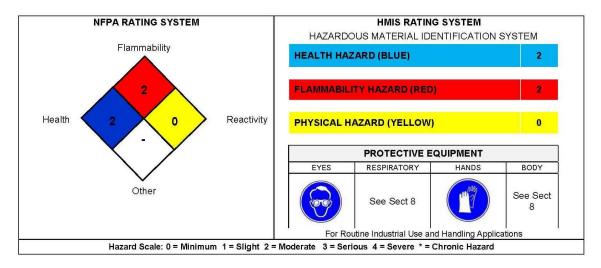
5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:



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Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Tilt-Up Cure/Bond Breaker.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Stoddard Solvent	8052-41-3	500 ppm	350 mg/m³
Aromatic Hydrocarbon	64742-95-6	2000 mg/mg ³	350 mg/m³
Isobutyl Alcohol	78-83-1	100 ppm (300 mg/m³)	50 ppm (150 mg/m ³)

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas.



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Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards. Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to

prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards. Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

Hand Protection:

Eye Protection:

Body Protection:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties: Appearance (Physical State and Color): Red clear liquid

Odor: Characteristic hydrocarbon Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: 280°F (137°C) Flash Point: 104°F (40°C)

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: LEL 0.7%, UFL 7.5%

Vapor Pressure (mm Hg @ 20°C (68° F): 11 mm Hg 100°F

Vapor Density: 4



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Relative Density: No data available

Specific Gravity: 0.81

Solubility in Water: Not miscible **Weight per Gallon:** No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Avoid excessive temperatures, exposure to sunlight, sources

of ignition.

10.5 Incompatible Substances: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Carbon monoxide and dioxide smoke.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Aromatic Hydrocarbon	64742-95-6	LD50 Dermal - Rabbit	>2000 mg/kg
Alomatic Hydrocarbon		LC50 Inhalation – Rat	10,00 mg/mg ³
	78-83-1	LD50 Oral – Rat	2,460 mg/kg
Isobutyl Alcohol		LC50 Inhalation – Rat	8000 ppm
		LD50 Dermal – Rabbit	3,400 mg/kg

Suspected Cancer Agent: Ingredients within this product are found on one or more of the

following lists: FEDERAL OSHA Z LIST, NTP, IARC, or

CAL/OSHA and therefore are considered to be cancer-causing

agents by these agencies.

Irritancy: Skin, eye, respiratory irritant.

Sensitization to the Product: This product is not expected to cause skin sensitization. **Germ Cell Mutagenicity:** This product contains ingredients that are suspected to be a

germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Aromatic Hydrocarbon	64742 05 6	LC50 – Fish	9.2 mg/l – 96h
	04742-95-0	EC50 – Algae	3.3 mg/l



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Isobutyl Alcohol 78-83-1 LC50 – Fathead Minnow 1.220 mg/l – 96h

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number: UN1993

Proper Shipping Name: Combustible Liquid, n.o.s. (contains Aromatic

Hydrocarbon)

Hazard Class Number and Description: Class 3 – Combustible Liquid

Packing Group:

DOT Label(s) Required: Combustible

North American Emergency

Response Guidebook Number: 128

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are designated by the

None

Department of Transportation to be Marine Pollutants

This product is considered as dangerous goods.

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: UN1993

Proper Shipping Name: Flammable Liquid, n.o.s. (contains Aromatic

Hydrocarbon)

Hazard Class Number and Description: Class 3 – Flammable Liquid

Packing Group:

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EMS-No: F-E-S-E

Special Notes: The flash point for this material is greater than 100 F

(38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine

pollutant, or specifically listed as a hazardous

substance.

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: Yes; Reactivity; No

U.S. CERCLA Reportable Quantity:

Isobutyl Alcohol – 5,000

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class B2, Flammable Liquid, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations.





15.3 European Economic Community Information:



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This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: December 18, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecTilt WB

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Reactive water-based bondbreaker

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108

Business Phone: (816) 968-5600 Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Last Revision: January 10, 2015
Date of Current Revision: July 1, 2018

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a milky white liquid with a characteristic hydrocarbon odor.

<u>Health Hazards</u>: May cause skin, eye, and respiratory system irritation. May be an aspiration hazard. Inhalation may cause drowsiness or dizziness.

Flammability Hazards: This product is not a flammable liquid with a flash point of >200°F (93°C).

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols Not Regulated



EU and GHS Symbols

Signal Word Warning

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

265-199-0 is listed in Annex I 649-356-00-4

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Aromatic Hydrocarbon

2.2 Label Elements:

GHS Hazard Classifications: Skin Irritation Category 2

Germ Cell Mutagenicity Category 1B

Response Statements:



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Carcinogenicity Category 1B

STOT - SE Category 3 (Respiratory System,

Central Nervous System)

Chronic Aquatic Toxicity Category 3

Hazard Statements: H315 Causes skin irritation

H340 May cause genetic defects

H350 May cause cancer

H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H412 Harmful to aquatic life with long lasting

effects

Precautionary Statements: P280 Wear protective gloves/eye

protection/face protection.

P264 Wash thoroughly after handling
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions

have been read and understood

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated

area

P273 Avoid release to the environment P302+P352 IF ON SKIN: Wash with plenty of

water.

P321 Specific treatment (see supplemental first

aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical

advice/attention.

P364 Wash clothing before reuse.

P308+P313 IF exposed or concerned: Get

medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON Center/doctor if you feel

unwell.

P391 Collect spillage.

Storage Statements: P403+P235 Store in a well-ventilated place.

Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness.



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Skin Contact: May cause moderate irritation to skin. Repeated exposure may cause skin dryness or

cracking.

Eye Contact: Vapours and direct contact to the eyes may be irritating.

Ingestion: May cause nausea, vomiting, and headaches.

Chronic: Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Skin, Eyes, Respiratory System

Chronic: Skin

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Aromatic Hydrocarbon	< 5%	64742-95-6	265-199-0	Flam. Liq. 3; Skin Irrit. 2; Carc. 1B, Muta. 1B; STOT SE 3; ASP. Tox. 1, Aquatic Chronic 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to do.

Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin, eyes, and respiratory

system may cause irritation. May cause headaches, drowsiness, or

dizziness. Aspiration hazard.



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4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: No

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

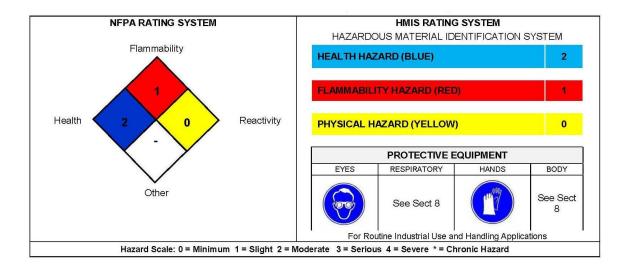
5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.





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SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Reactive water-based form release agent.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Aromatic Hydrocarbon	64742-95-6	2000 mg/mg ³	350 mg/m³

8.2 Exposure Controls:

Hand Protection:

Body Protection:



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Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

states.

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Chemical resistant gloves are required to

prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Milky white liquid

Odor: Characteristic hydrocarbon



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Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: 212°F (100°C) **Flash Point:** >200°F (93°C)

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: LEL 0.7%, UFL 7.5%

Vapor Pressure (mm Hg @ 20°C (68° F): 11 mm Hg 100°F

Vapor Density: 4

Relative Density: No data available

Specific Gravity: 0.98

Solubility in Water: Fully miscible **Weight per Gallon:** No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Avoid excessive temperatures, exposure to sunlight, sources

of ignition.

10.5 Incompatible Substances: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Carbon monoxide and dioxide smoke.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Aromatic Hydrocarbon	64742.05.6	LD50 Dermal - Rabbit	>2000 mg/kg
	04742-95-0	LC50 Inhalation – Rat	10,00 mg/mg ³

Suspected Cancer Agent: Ingredients within this product are found on one or more of the

following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be cancer-causing

agents by these agencies.

Irritancy: Skin, eye, respiratory irritant.

Sensitization to the Product: This product is not expected to cause skin sensitization. This product contains ingredients that are suspected to be a

germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.



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SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Aromatic Hydrocarbon	64742 05 6	LC50 – Fish	9.2 mg/l – 96h
	64742-95-6	EC50 – Algae	3.3 mg/l

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:
Proper Shipping Name:
Hazard Class Number and Description:
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

North American Emergency
Response Guidebook Number:
Not applicable

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are designated by the

None

Not regulated.

Department of Transportation to be Marine Pollutants

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: Not applicable



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Proper Shipping Name:Not regulatedHazard Class Number and Description:Not applicablePacking Group:Not applicableEMS-No:Not applicable

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class B2, Flammable Liquid, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations.



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:



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Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET

Tel.: (866) 329-8724

Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2020 Reviewed on 03/10/2020

1 Identification

- · Product identifier
- · Trade name: Sure LiftTM with Dye J6D
- · Article number: 83-69231
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dayton® Superior

4226 Kansas Avenue

Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident

involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 3	H226	Flammable liquid and vapor.
Eye Irrit. 2B	H320	Causes eye irritation.
Carc. 1B	H350	May cause cancer.
STOT SE 3	Н335-Н336	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 1	H372	Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Stoddard solvent

butanol

1,2,4-trimethylbenzene

Naphtha (petroleum), hydrodesulfurized heavy

· Hazard statements

Flammable liquid and vapor.

Causes eye irritation.

May cause cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the central nervous system through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If swallowed: Immediately call a poison center/doctor.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 1)

Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2 2 Fire = 2

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:					
8052-41-3	Stoddard solvent	≥10-<30%			
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	≥10-<30%			
64742-95-6	Solvent naphtha (petroleum), light arom.	<i>≥</i> 0.1-<9.5%			
95-63-6	1,2,4-trimethylbenzene	<i>≥</i> 2.5-<7%			
78-83-1	butanol	≤ 3.0%			
9003-29-6	Butene, homopolymer	≤ 2.1%			
64742-47-8	Distillates (petroleum), hydrotreated light	<1.8%			
98-82-8	cumene	<i>≥</i> 0.25-<1.2%			
	propylbenzene	<i>≥</i> 0.25-<0.7%			
91-20-3	naphthalene	≥0.1-<0.2%			

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

· After inhalation:

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2020 Reviewed on 03/10/2020

Trade name: Sure LiftTM with Dye J6D

(Contd. of page 2)

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Foam
- · For safety reasons unsuitable extinguishing agents: Water
- · Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- · Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

(Contd. on page 4)

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Trade name: Sure LiftTM with Dye J6D

· Specific end use(s) No further relevant information available.

(Contd. of page 3)

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

8052-41-3 Stoddard solvent

PEL Long-term value: 2900 mg/m³, 500 ppm

REL Long-term value: 350 mg/m³ Ceiling limit value: 1800* mg/m³

*15-min

TLV Long-term value: 525 mg/m³, 100 ppm

95-63-6 1,2,4-trimethylbenzene

REL Long-term value: 125 mg/m³, 25 ppm

TLV Long-term value: 123 mg/m³, 25 ppm

78-83-1 butanol

PEL Long-term value: 300 mg/m³, 100 ppm REL Long-term value: 150 mg/m³, 50 ppm

TLV Long-term value: 152 mg/m³, 50 ppm

98-82-8 cumene

PEL Long-term value: 245 mg/m³, 50 ppm

Skir

REL Long-term value: 245 mg/m³, 50 ppm

Skin

TLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm

NIC-A3

91-20-3 naphthalene

PEL Long-term value: 50 mg/m³, 10 ppm

REL Short-term value: 75 mg/m³, 15 ppm

Long-term value: 50 mg/m³, 10 ppm

TLV Long-term value: 52 mg/m³, 10 ppm

Skin; BEI

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

(Contd. on page 5)

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Trade name: Sure LiftTM with Dye J6D

(Contd. of page 4)

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

 \cdot **Eye protection:** Wear appropriate eye protection to prevent eye contact.

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	Bucal	unu	U	<i>temutu</i>	ט זע י	permes

· Information on basic physical and chemical properties · General Information		
· Appearance:		
Form:	Liquid	
Color:	According to product specification	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 162 °C (323.6 °F)	
· Flash point:	40 °C (104 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	230 °C (446 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
Lower:	1.1 Vol %	
Upper:	6 Vol %	
· Vapor pressure at 20 °C (68 °F):	1 hPa (0.8 mm Hg)	
· Density at 20 °C (68 °F):	$0.81122 \text{ g/cm}^3 (6.76963 \text{ lbs/gal})$	
Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

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Trade name: Sure LiftTM with Dye J6D

		(Contd. of page 5)
· Other information	No further relevant information available.	
· Volatile Organic Compounds:	Contains less than 750 g/L.	

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

1101110 101111	5	
· LD/LC50 values that are relevant for classification:		
64742-95-0	6 Solvent n	naphtha (petroleum), light arom.
		>6,800 mg/kg (rat)
Dermal	<i>LD50</i>	>3,400 mg/kg (rab)
		>10.2 mg/l (rat)
95-63-6 1,2	2,4-trimeth	nylbenzene
Oral	LD50	5,000 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye:

Strong irritant with the danger of severe eye injury.

Irritating effect.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

· Carcinogenic categories

· Carcinog	enic cutegories	
· IARC (In	ternational Agency for Research on Cancer)	
98-82-8	8 cumene	2 <i>B</i>
1330-20-2	7 xylene	3
91-20-3	3 naphthalene	2 <i>B</i>
100-41-4	4 ethylbenzene	2B
· NTP (Nat	tional Toxicology Program)	
98-82-8	cumene	R
91-20-3 1	naphthalene	R
		(Contd. on page 7

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Water hazard class 1 (Self-assessment): slightly hazardous for water

Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA UN1268

· UN proper shipping name

· DOT Petroleum distillates, n.o.s.

·ADR 1268 PETROLEUM DISTILLATES, N.O.S.,

ENVIRONMENTALLY HAZARDOUS
• IMDG, IATA PETROLEUM DISTILLATES, N.O.S.

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US

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Trade name: Sure LiftTM with Dye J6D

	(Contd. of page
Transport hazard class(es)	
DOT	
P.AMMER CO.	
Class	3 Flammable liquids
· Label 	3
ADR, IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group OOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	30 F-E,S-E
Transport in bulk according to Annex II of MARPOLA	
and the IBC Code	Not applicable.
Transport/Additional information:	
· ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	DOT: Not regulated (Reclassified as per 49CFR 173.150).
Emergency Response Guide (ERG) Number:	Not determine
IMDG	1101 WEIGHTHARE
· IMDG · Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, ENVIRONMENTALLY HAZARDOUS

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Trade name: Sure LiftTM with Dye J6D

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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

95-63-6	1,2,4-trimethylbenzene	<i>≥</i> 2.5-<7%
98-82-8	cumene	≥0.25-<1.2%
1330-20-7	xylene	<0.7%
91-20-3	naphthalene	≥0.1-<0.2%
100-41-4	ethylbenzene	<0.1%

· 15CA (10xi	ic Substances Control Act):	
8052-41-3	Stoddard solvent	ACTIVE
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	ACTIVE
64742-95-6	Solvent naphtha (petroleum), light arom.	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
78-83-1	butanol	ACTIVE
9003-29-6	Butene, homopolymer	ACTIVE
25551-13-7	Trimethylbenzene	ACTIVE
64742-47-8	Distillates (petroleum), hydrotreated light	ACTIVE
	cumene	ACTIVE
112-62-9	Methyl 9-octadecenoate	ACTIVE
112-80-1	oleic acid, pure	ACTIVE
64742-48-9	Naphtha (petroleum), hydrotreated heavy	ACTIVE
103-65-1	propylbenzene	ACTIVE
1330-20-7	xylene	ACTIVE
	mesitylene	ACTIVE
	1,2,3-trimethylbenzene	ACTIVE
91-20-3	naphthalene	ACTIVE

4477-79-6	2-naphthalenol
· Hazardous /	Air Pollutants

100-41-4 ethylbenzene

1100,000 000 000	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
98-82-8	cumene
1330-20-7	xylene
91-20-3	naphthalene
100-41-4	ethylbenzene

· Proposition 65

· Chemicals known to the State of California (Prop. 65) to cause cancer:		
64742-95-6	Solvent naphtha (petroleum), light arom.	
98-82-8	cumene	
91-20-3	naphthalene	

(Contd. on page 10)

ACTIVE

ACTIVE

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Trade name: Sure LiftTM with Dye J6D

	ethylbenzene	
	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
Canceroge	nity categories	
EPA (Envi	ronmental Protection Agency)	
95-63-6	1,2,4-trimethylbenzene	II
98-82-8	cumene	D, CE
1330-20-7	xylene	I
108-67-8	mesitylene	II
	1,2,3-trimethylbenzene	II
	naphthalene	C, CB
100-41-4	ethylbenzene	D
,	shold Limit Value established by ACGIH)	
1330-20-7	xylene	1
91-20-3	naphthalene	
100-41-4	ethylbenzene	F
MAK (Geri	nan Maximum Workplace Concentration)	
	leic acid, pure	ź
	aphthalene	2
100-41-4 e	thylbenzene	Ź
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Stoddard solvent

butanol

1,2,4-trimethylbenzene

Naphtha (petroleum), hydrodesulfurized heavy

· Hazard statements

Flammable liquid and vapor.

Causes eye irritation.

May cause cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the central nervous system through prolonged or repeated exposure.

(Contd. on page 11)

Printing date 03/10/2020 Reviewed on 03/10/2020

Trade name: Sure LiftTM with Dye J6D

(Contd. of page 10)

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The provided information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 03/10/2020 / 177
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids - Category 3

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Carc. 1B: Carcinogenicity - Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

U:



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: INTRALOK. Part Number: 3610000

Manufacturer: W. R. MEADOWS, INC. Address 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 4/4/2019
Product Use: Adhesive/Glue

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS HAZARD STATEMENTS

|Health| | 1 | WARNING!

|Flammability| | 0 | May cause skin, eye, respiratory irritation.

|Reactivity| | 0 | PRECAUTIONARY STATEMENTS

| Personal Protection | | Avoid direct contact

Avoid inhalation of mists/aerosols.

SECTION 3: HAZARDS COMPONENTS

% by SARA Vapor Pressure LEL

Chemical Name: CAS Number Weight 313 (mm Hg@20°C) (@25°C)

1 Visul Asstate Homosolymor 2003 20.7

1. Vinyl Acetate Homopolymer 9003-20-7 55-60 No N/A N/A

N/A = Not ApplicableUnder the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA)

and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with large quantities of water for fifteen (15) minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Wash skin with mild soap and water. Remove contaminated clothing. Launder before reuse. If irritation develops/persists, medical attention.

INHALATION: Remove victim from exposure source and into freah air. Treat symptomatically. If symptoms persist, seek medical attention.

INGESTION: Give victim one to two glasses of water or milk to drink. Do not induce vomiting. Seek medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Not Applicable water based product.

EXTINGUISHING MEDIA: Water fog, foam, dry chemical or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Self-contained breathing apparatus and full fire fighting protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate unauthorized personnel. Dike/contain spilled material. Remove spill source. Spilled materials should be cleaned up using an appropriate absorbent and placed in marked, sealed containers for disposal. Prevent spilled material from entering sewers, waterways, etc... Dried material may be difficult to remove.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.

SAFE STORAGE: Keep containers closed when not in use. Prevent product from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH OSHA PEL/CEILING **Chemical Name:** PEL PEL/STEL **SKIN TWA TLV/CEILING** TLV/STEL SKIN 1. Vinyl Acetate Homopolymer N/E N/E N/E N/E N/E N/E Nο No

ENGINEERING CONTROLS: None required under normal use conditions. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, chemical-resistant gloves.

SAFETY DATA SHEET

Date of Preparation: 4/4/19 Page 2 of 2 3610000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >212 °FVAPOR DENSITY: >1 (air=1)% VOLATILE BY VOLUME: N/EEVAPORATION RATE: <1 (BuAc =1)</td>pH LEVEL: 5.0 (Approximate)% VOLATILE BY WEIGHT: 44-46

WEIGHT PER GALLON: 9.1 PRODUCT APPEARANCE: Milky Liquid VOC CONTENT: 1.1 g/L

ODOR: Mild Organic ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

 FLASH POINT:
 See Section 5
 FLAMMABILITY:
 N/D
 UEL/LEL:
 N/D

 VAPOR PRESSURE:
 N/D
 RELATIVE DENSITY:
 N/D
 SOLUBILITY:
 N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized.

HAZARDOUS DECOMPOSITION PRODUCTS: Acetic acid and Acrolein.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may result in mild to moderate irritation.

SKIN CONTACT: Direct contact may result in mild irritation.

INHALATION: Inhalation of mists/aerosols may result in mild irritation.

INGESTION: Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort,

shortness of breath, and reduced lung function.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: N/E

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is a non-hazardous waste. Solidified product may be landfilled.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Non-hazardous.

UN NUMBER: None. HAZARD CLASS: None. PACKING GROUP: None.

UN PROPER SHIPPING NAME: None. ENVIRONMENTAL HAZARDS: None.

BULK TRANSPORTATION INFORMATION: Not regulated by DOT.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 4/4/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



SAFETY DATA SHEET

Issue Date 02-Nov-2018 Revision Date 12-Aug-2019 Version 6

CS-100 Blush-Tone Acid Stain Jade

1. IDENTIFICATION

Product identifier

Product Name Blush-Tone Acid Stain Jade

Other means of identification

Product Code CS-100

Recommended use of the chemical and restrictions on use

Recommended Use Restricted to professional users.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressSolomon Colors, Inc.Solomon Colors, Inc.4050 Color Plant Road4050 Color Plant RoadSpringfield, ILSpringfield, IL

62702 62702

Company Phone Number 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

24 Hour Emergency Phone Number 800-373-7542 Use only in the event of an emergency involving a spill, leak, fire, exposure,

or accident involving chemical

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4.
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed Causes skin irritation

Causes serious eye damage



Appearance aqueous solution Physical state Liquid Odor Strong Pungent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see supplemental information on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

-	Chemical Name	CAS No.	Weight-%	Trade Secret
I	Copper Chloride	7447-39-4	20 - 30	*
	Hydrochloric acid	7647-01-0	< 10	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

Inhalation If fumes from reactions are inhaled, move to fresh air immediately. Call a physician or

poison control center immediately.

Ingestion If swallowed, call a poison control center or physician immediately. Clean mouth with water

and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms May be harmful if swallowed. Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Runoff may pollute waterways.

Hazardous combustion productsThermal decomposition can lead to the release of irritating gases and vapors. Carbon oxides. Hydrogen chloride.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and

inhalation of vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate affected area. Stop leak if you can do it without

risk.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Prevent further

leakage or spillage if safe to do so. See Section 12 for additional ecological information. Do

not allow into any sewer, on the ground or into any body of water.

Methods and material for containment and cleaning up

Methods for containment Dike far ahead of liquid spill for later disposal. Contain and collect spillage with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Wash contaminated clothing before reuse. Avoid breathing vapors or mists. Wash

thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original

container. Keep in properly labeled containers. Keep from freezing.

Incompatible materials Strong oxidizing agents. Metals. Alkali. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ı	Copper Chloride	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist
	7447-39-4	_		TWA: 1 mg/m ³ Cu dust and mist
ı	Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
	7647-01-0		(vacated) Ceiling: 7 mg/m ³	Ceiling: 5 ppm
			Ceiling: 5 ppm	Ceiling: 7 mg/m ³
			Ceiling: 7 mg/m ³	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations

Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Wash face, hands and any exposed skin thoroughly after handling. Use personal protective

equipment as required. Avoid prolonged or repeated contact with skin. Avoid breathing

(dust, vapor, mist, gas). Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearanceaqueous solutionOdorStrong Pungent

Color Jade Odor threshold No information available

Property Values Remarks • Method

No information available рH No information available Melting point/freezing point No information available Boiling point / boiling range Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available No information available

Specific Gravity 1.30 +/-0.03

Water solubility No information available No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Vapor density

Softening point No information available No information available Molecular weight

VOC Content (%) None

Density No information available **Bulk density** No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Strong oxidizing agents. Storage near to reactive materials. To avoid thermal decomposition, do not overheat.

Incompatible materials

Strong oxidizing agents. Metals. Alkali. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon oxides. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information May be harmful if swallowed or inhaled. Causes severe skin burns and eye damage.

May cause irritation of respiratory tract. Inhalation of corrosive fumes/gases may cause Inhalation

coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased

blood pressure, and increased heart rate.

Eve contact Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact Corrosive. Contact causes severe skin irritation and possible burns. The product causes

burns of eyes, skin and mucous membranes.

Ingestion Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Copper Chloride	= 584 mg/kg (Rat)	-	-
7447-39-4			
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h
7647-01-0			

Information on toxicological effects

Acute Toxicity - Oral- Cat. 4: Harmful if swallowed. (based on ATE for mixture components). **Symptoms**

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Skin Corrosion Cat 1. (based on mixture components). Causes severe burns.

Serious eye damage/eye irritation Eye Damage Cat 1. (based on mixture components). Risk of serious damage to eyes. Sensitization

Not Classified. This product does not contain known sensitizers at levels > or equal to

0.1%.

Germ cell mutagenicity Not classified. (Based on mixture components).

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	-	Group 3	-	-
7647-01-0				

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Not classified. (Based on mixture components). STOT - single exposure Not classified. (Based on mixture components). STOT - repeated exposure Not classified. (Based on mixture components). Not classified. (Based on mixture components). **Aspiration hazard**

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 4569.1 mg/kg **ATEmix (dermal)** 61503.4 mg/kg mg/l

ATEmix (inhalation-dust/mist) 9.86 mg/l

CS-100

Blush-Tone Acid Stain Jade

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity

This product has not been fully evaluated on the product level. This product contains substances that are known to be toxic to aquatic life with long lasting effects.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesShould not be released into the environment. Rinse water resulting from cleanup should be

collected for treatment before disposal. Solutions with low pH-value should be neutralized. Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Copper Chloride	Toxic
7447-39-4	

14. TRANSPORT INFORMATION

DOT Not regulated for ground shipment in inner packaging not over 5.0 L (1.3 gallons) net

capacity each for liquids, packed in a strong outer packaging. (See D.O.T 49 CFR

173.154(b)(2) under Exemptions for Class 8)

UN/ID no. UN326

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group III

Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to

DOT.

TDG

UN/ID no. UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group III

MEX

UN/ID no. UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group

ICAO (air)

UN/ID no. UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group III

IATA

UN/ID no. UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group III

IMDG

UN/ID no. UN3264

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s. (Hydrochloric Acid)

Hazard Class 8
Packing Group III

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Copper Chloride - 7447-39-4	1.0	
Hydrochloric acid - 7647-01-0	1.0	

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper Chloride 7447-39-4	10 lb	X	-	X
Hydrochloric acid 7647-01-0	5000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ı	Copper Chloride	10 lb	•	RQ 10 lb final RQ
	7447-39-4			RQ 4.54 kg final RQ
ı	Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
	7647-01-0			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Copper Chloride	X	X	X
7447-39-4			

Hydrochloric acid 7647-01-0	Х	Х	Х
Ferrous Chloride	X	X	X
7758-94-3			

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 1 Reactivity 0 Physical and Chemical

Properties -

HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X

Prepared By Solomon Colors - Lab Technical Services

 Issue Date
 02-Nov-2018

 Revision Date
 12-Aug-2019

Revision Note Periodic Review

CS-100

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product FormMixtureTrade NameACRYL-PEN

Product Code AP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Industrial. For professional use only.

1.2.2 Uses Advised Against

No additional information available

1.3 Details of the supplier of the safety data sheet

Manufacturer

NOX-CRETE, INC.

1444 SOUTH 20TH STREET

OMAHA, NE 68108 Tel: 402-341-2080 Fax: 402-341-9752

E-Mail: corporate@nox-crete.com
Web Site: www.nox-crete.com

1.4 Emergency telephone number

Emergency Number Chemtrec (800) 424-9300

Chemtrec Outside of U.S. 703-527-3887

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Asp. Tox. 1 H304 Acute Tox. 4 (dermal) H312 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 (inhalation resp. irrit. STOT SE 3 H335 STOT SE 3 drowsiness H336 Carc. 2 H351 STOT RE 2 H373	Flam Liq. 3	H226
Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 (inhalation resp. irrit. STOT SE 3 H335 STOT SE 3 drowsiness H336 Carc. 2 H351	Asp. Tox. 1	H304
Eye Irrit. 2 H319 Acute Tox. 4 (inhalation resp. irrit. STOT SE 3 H335 STOT SE 3 drowsiness H336 Carc. 2 H351	Acute Tox. 4 (dermal)	H312
Acute Tox. 4 (inhalation H332 resp. irrit. STOT SE 3 H335 STOT SE 3 drowsiness H336 Carc. 2 H351	Skin Irrit. 2	H315
resp. irrit. STOT SE 3 H335 STOT SE 3 drowsiness H336 Carc. 2 H351	Eye Irrit. 2	H319
STOT SE 3 drowsiness H336 Carc. 2 H351	Acute Tox. 4 (inhalation	H332
Carc. 2 H351	resp. irrit. STOT SE 3	H335
	STOT SE 3 drowsiness	H336
STOT RE 2 H373	Carc. 2	H351
	STOT RE 2	H373

Full text of H phrases see section 16

Adverse physiochemical, human health and environmental effects

No additional information available

2.2 Label elements

Hazard pictograms









ACRYL-PEN Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Signal word Danger

Hazard statements H226 - Flammable liquid and vapor Flam Liq. 3

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H373 - May cause damage to ears and CNS through prolonged or

repeated exposure

Precautionary statements

Prevention: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and

understood

P210 - Keep away from heat/sparks/open flames/hot surfaces-No

smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/light/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash exposed area's thoroughly after handling.

F204 - Wash exposed area's thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face

protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P303+P361+P353 - IF ON SKIN (or hair): Remove / Take off

immediately all contaminated clothing. Rinse skin with water / shower P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P305+P351+P338 -IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue

rinsing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P331 - Do NOT induce vomiting

P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use Dry chemical, foam, carbon dioxide for

extinction

P403+P405+P235+P233 - Store locked up in a cool well ventilated

place. Keep container tightly closed.

P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations.

2.3 Other hazards

Response:

Storage:

Disposal:

Full text of H and P phrases: see section 16

Section 3. Composition / information on ingredients



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

3.1 Substances

Not applicable

3.2 Mixture

Name	Product identifier	%
Xylene	1330-20-7	< 60.0
Aromatic Solvent	Trade Secret	Trade Secret
Ethylbenzene	100-41-4	< 19.0
Propylene Glycol Monomethyl Ether	108-65-6	Trade Secret
Alkyl Alkoxy Silane	Trade Secret	Trade Secret

Pursuant to 29CFR 1910.1200(i) the specific chemical identity (and / or) concentration may be withheld as Trade Secret, while all health and safety properties and effects are included in the SDS.

Section 4. First aid measures

4.1	Description	of firet	aid measures
4. I	Describtion	or mist	alu measures

First-aid measures general Get medical advice/attention if you feel unwell. Never give anything by

mouth to an unconscious person.

First-aid measures after inhalation If the individual experiences nausea, dizziness, has difficulty In

breathing seek a healthcare professional immediately. In all cases of doubt, or when symptoms persist, seek medical advice. Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a Poison Center or doctor/physician.

First-aid measures after skin contact If skin irritation persists, seek medical attention. Remove or take off

immediately all contaminated clothing. Rinse skin with water or shower.

Wash off immediately with soap and plenty of water.

First-aid measure after eye contact When contact lenses are worn, remove if possible. In case of contact

with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes while holding eyelids apart. Get medical attention immediately.

First-aid measures after ingestion Rinse mouth. DO NOT induce vomiting. Get medical attention

immediately.

4.2 Most important symptoms and effects, acute and delayed

Symptoms/injuries after inhalation May cause irritation to the respiratory tract. Overexposure to vapors may

result in headache, nausea, drowsiness or dizziness.

Symptoms/injuries after skin contact

May cause skin irritation or burning sensation

Symptoms/injuries after eye contact

May cause eye irritation or injury

Symptoms/injuries after ingestion May cause severe irrit

May cause severe irritation or burns to the mucous membrane of the

mouth, throat, esophagus and stomach

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Unsuitable extinguishing media
Dry chemical, foam, carbon dioxide
Do not use heavy water stream

5.2 Special hazards arising from the substance or mixture



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Reactivity Thermal decomposition products may cause a health hazard.

5.3 Advice for firefighters

Other information

Firefighting instructions Flammable Liquid! This material releases vapors when heated above

ambient temperatures. Vapors can cause a flash fire. Use water spray

or fog to cool exposed containers.

Protective equipment for firefighters Firefighters should always wear self-contained breathing apparatus

(SCBA) and full protective gear when fighting any chemical fire. On heating or burning harmful gasses/vapors may be released.

This product may cause the floor to become slippery.

This product may cause the floor to become s

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Extremely Flammable. Eliminate any ignition sources. Dike or impound

spilled material. Use Non-sparking tools. All equipment must be grounded. Take proper precautions to ensure your own health and

safety before attempting spill control or cleanup.

<u>6.11 Protective Equipment</u> Equip cleanup crew with proper protective equipment.

6.2 Environmental precautions Prevent entry to sewers and public waters.

Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upSoak up spills with inert solids, such as clay or diatomaceous earth.

Collect into vapor tight containers and dispose of properly.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures Wash hands and other exposed areas with soap and water before

eating, drinking or smoking and when leaving work. Provide good ventilation in work areas to prevent formation of vapor. When not in use

keep containers tightly closed. Avoid breathing vapor or mist.

Hygiene measures Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditionsStore in accordance with local regulations. Store in original container in

a cool well-ventilated place away from heat, sparks and open flame.

Keep containers tightly closed until ready for use.

Incompatible materials Strong oxidizing agents

Storage temperature Store in a cool dry environment away from sources of ignition.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Occupational exposure limits		
Ingredient name	Occupational exposure limits	
	ACGIH TLV (United States)	
Xylene	TWA: 100 ppm 8 hours	
Aromatic Solvent	TWA: 100 ppm 8 hours	
Ethylbenzene	TWA: 100 ppm 8 hours	
Propylene Glycol Monomethyl Ether	TWA: 100 ppm 8 hours	
Alkyl Alkoxy Silane	Not established	

8.2 Exposure controls

EN (English)

Appropriate engineering controls

Use with adequate ventilation to keep product vapor concentrations



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

below specified TLV

Chemical goggles and/or face shields are recommended to prevent Eye and face protection

potential

eve contact, irritation or injury.

Wear chemical resistant gloves and appropriate protective clothing and Skin protection

> boots as required to prevent skin contact. Wash exposed skin frequently with soap and water. Soiled clothing should be laundered

before reuse.

Respiratory protection General room ventilation is normally adequate. Avoid breathing the

product mist or vapors. The use of an appropriate respirator is

recommended whenever the airborne concentrations exceed the TLV.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear liquid

Strong Aromatic Odor Odor **Odor Threshold** No data available PH No data available **Melting point** No data available Freezing point No data available **Boiling point** > 150 C (>300 F) Flash point 27 C 80 F PMCC

Relative evaporation rate (butyl acetate=1) No data available

Flammability (solid, gas) Flammable liquid and vapor

Upper/lower explosive limits No data available Vapor pressure No data available Vapor density No data available

Relative density (Specific gravity) 0.97 Kg per Liter 8.1 Lbs per Gallon

Solubility Water: Negligible No data available Partition coefficient n-octanol/water **Auto-ignition temperature** Not applicable **Viscosity** No data available **VOC** content Less than 600 g/l

Section 10. Stability and reactivity

10.1 Reactivity No additional information available 10.2 Chemical stability Stable under normal conditions

10.3 Possibility of hazardous reactions Hazardous polymerization will not occur. 10.4 Conditions to avoid Extreme high or low temperatures.

10.5 Incompatible materials Strong acids and oxidizers

carbon monoxide, carbon dioxide, various hydrocarbon derivatives 10.6 Hazardous decomposition products

Section 11. Toxicology information

11.1 Information on toxicological effects

Acute toxicity

Carcinogenicity

Irritation/Corrosion Skin May cause skin irritation

Eves May causes serious eye irritation and damage.

May cause respiratory irritation

Respiration or skin sensitization

Germ cell mutagenicity No data available

IARC

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No adverse effects expected under intended use.



ACRYL-PEN S

Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Xylene	3
Ethylbenzene	2B

2B - Limited evidence in humans and less than sufficient evidence in animals.

3 - Inadequate in humans and inadequate or limited in animals.

Reproductive toxicity

No data available

Specific target organ toxicity

Single exposureNo data availableRepeated exposureNo data available

Aspiration hazard May be fatal if swallowed and enters airways

Section 12. Ecological information

12.1 EcotoxicityNot established12.2 Persistence and degradabilityNot established12.3 Bioaccumulative potentialNot established

12.4 Mobility in soilNo additional information available12.5 Other adverse effectsAvoid release to the environment

SECTION 13. Disposal Considerations

13.1 Waste treatment methods The user of this m

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all applicable local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

SECTION 14. Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN number UN1263

14.2 UN proper shipping name Paint Related Material

14.3 Transport hazard class(es) 3 14.4 Packing group III

14.5 Environmental hazardsNo additional information available

14.6 Special precautions for user 14.7 Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code No additional information available

14.8 Transport in bulk according to

CFR 49 173.15 Not applicable

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.2 USA Regulations

Section 313 Contains the following ingredients at or above the reporting level

requirements of Section 313. This information must be included in all

SDS's copied or distributed for this material.

CHEMICAL CAS # MAX WEIGHT %

 Xylene
 1330-20-7
 38.0

 Ethylbenzene
 100-41-4
 8.0



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Trimethylbenzene 95-63-6 2.2

TSCA All ingredients are listed or exempted

PROPOSITION 65

DSL



WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov."

<u>15.1.3 Canada Regulations</u> This SDS has been prepared according to the hazard criteria of the

Hazardous Products Regulation (HPR) (WHMIS 2015) and the SDS

contains all of the information required by the HPR.

All ingredients are listed or exempted

<u>15.2 Chemical safety assessment</u> A Chemical Safety Assessment has not been carried out.

Section 16. Other information

Date of issue	7-8-2020
Version	2.3
Number	102
Date of previous issue	9-10-2018
Preparer	Nox-Crete, Inc.

Reference Documentation

The information and recommendations contained herein are, to the best of Nox-Crete, Inc.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Nox-Crete, Inc. to ensure that this document is the most current available from Nox-Crete. Inc. The information and recommendations are offered for the buver's/user's consideration and examination. It is the buyer's/user's responsibility to satisfy themselves that the product is suitable for the intended use. Appropriate warnings and safe-handling procedures should be provided to all handlers and users. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Since the information provided herein may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and buyer/user may rely thereon only at their risk. We have made no effort to censor or to conceal deleterious aspects of this product. Further, since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the health and/or safety precautions we have suggested will be adequate for all individuals and /or situations involving its handling or use. Likewise, we make no guarantee or warranty of any kind that the use or disposal of this product is in compliance with all federal, state or local laws. It is the obligation of each buyer/user of the product mentioned herein to determine and comply with the requirements of all applicable statutes. If buyer/user repackages this product, it is the buyer's/user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Nox-Crete, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with this product. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part is not permitted.

Full text of H and P phrases

Flam Liq. 3	H226
Asp. Tox. 1	H304
Acute Tox. 4 (dermal)	H312
Skin Irrit. 2	H315



Safety Data Sheet

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), Hazardous Products Regulation (HPR) (WHMIS 2015)

Eye Irrit. 2	H319
Acute Tox. 4 (inhalation	H332
resp. irrit. STOT SE 3	H335
STOT SE 3 drowsiness	H336
Carc. 2	H351
STOT RE 2	H373

H226 - Flammable liquid and vapor

Flam Liq. 3

- H304 May be fatal if swallowed and enters airways
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer
- H373 May cause damage to ears and CNS through prolonged or repeated exposure
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/light/equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash exposed area's thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 -IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P331 Do NOT induce vomiting
- P337+P313 If eye irritation persists: Get medical advice/attention
- P370+P378 In case of fire: Use Dry chemical, foam, carbon dioxide for extinction
- P403+P405+P235+P233 Store locked up in a cool well ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



Revision Date: 07/10/2020

SAFETY DATA SHEET

1. Identification

Material name: COLOR-CRETE POWDER - 25# BG BLACK

Material: CCCB P025 080

Recommended use and restriction on use

Recommended use: Pigment Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD **CLEVELAND OH 44110**

US

Contact person: **EH&S** Department Telephone: 216-531-9222

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Not applicable

Hazard(s) not otherwise

classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures



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Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with

soap and water after work.

Eye contact: Rinse immediately with plenty of water.

Ingestion: Rinse mouth thoroughly.

Personal Protection for First-

Self-contained breathing apparatus and full protective clothing must

aid Responders:

be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

No data available.

6. Accidental release measures

Personal precautions,

protective equipment and emergency procedures:



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Accidental release measures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Methods and material for containment and cleaning

up:

Collect spillage in containers, seal securely and deliver for disposal

according to local regulations.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer. Environmental

manager must be informed of all major spillages.

7. Handling and storage

Handling

Technical measures (e.g. Local

and general ventilation):

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

Safe handling advice: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which

causes formation of dust.

Contact avoidance measures: No data available.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Storage

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed

container.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits. None of the components have assigned exposure limits. None of the components have assigned exposure limits.

Appropriate Engineering

Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: Wear goggles/face shield.



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Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Powder
Color: Various
Odor: Odorless

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

No data available.

No data available.

No data available.

Flash Point:

No data available.

Evaporation rate:

No data available.

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

Relative density: 4.5

Solubility(ies)

Solubility in water: Miscible with water.
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

10. Stability and reactivity

Reactivity: No data available.



Revision Date: 07/10/2020

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Dermal

Product:

Inhalation

Product:

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.



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Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.



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Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated



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IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.



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US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

: 0 g/l

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and

exempt solvent)

VOC Method 310 : 0.00 %



Version: 3.0

Revision Date: 07/10/2020

Inventory Status:

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: All components in this product are listed on or

exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals: All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are

not listed on or exempt from the Inventory.

16.Other information, including date of preparation or last revision

Revision Date: 07/10/2020

Version #: 3.0

Further Information: No data available.



Version: 3.0

Revision Date: 07/10/2020

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.





Printing date 07/21/2015 Reviewed on 06/01/2015

1 Identification

- · Product identifier
- · Trade name: Ashford Formula
- · Application of the substance / the mixture Hardening agent/ Curing agent
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 Curecrete Chemical Company
 1203 W. Spring Creek Place
 SPRINGVILLE, UT 84663
 USA
 techsupport@curecrete.com
 (801) 489-5663
- · Information department: Technical Services
- · Emergency telephone number: (800) 633-8253 (United States/Canada)

International Emergency Number: +1 (801) 629-0667

2 Hazard(s) identification

Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

Silicic acid, sodium salt

· Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product.

(Contd. on page 2)

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Trade name: Ashford Formula

(Contd. of page 1)

Wash thoroughly after handling.

Wear protective gloves.

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 0Reactivity = 0

The substance possesses oxidizing properties.

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 0

- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

1344-09-8 Silicic acid, sodium salt

30.0%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If swallowed, seek medical advice immediately and show this container or label.

(Contd. on page 3)

Printing date 07/21/2015 Reviewed on 06/01/2015

Trade name: Ashford Formula

(Contd. of page 2)

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:

Do not allow product to reach storm sewer system or ground water

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Printing date 07/21/2015 Reviewed on 06/01/2015

Trade name: Ashford Formula

(Contd. of page 3)

Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Viscous Clear • Odor! Odorless

· Odour threshold: Not determined.

• pH-value at 20 °C (68 °F): 11.3 - 11.6

· Change in condition

Melting point/Melting range: Undetermined.

(Contd. on page 5)

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Trade name: Ashford Formula

(Contd. of page 4)

Boiling point/Boiling range: 110 °C (230 °F)

• Flash point: Not applicable.

• Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion:
 Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Not determined.

• Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

Density at 20 °C (68 °F):
 1.1 - 1.2 g/cm³ (9.18 - 10.014 lbs/gal)

Relative density
Vapour density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 0.0 %

 Water:
 70.0 %

 VOC content:
 0 g/L

 Solids content:
 >15.0 %

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

(Contd. on page 6)

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Trade name: Ashford Formula

(Contd. of page 5)

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Very toxic

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

May cause or intensify fire; oxidizer.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Do not allow product to reach storm water drains or ground water.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

· DOT, ADN, IMDG, IATA not regulated

· UN proper shipping name

· DOT, ADN, IMDG, IATA not regulated

· Transport hazard class(es)

· DOT, ADN, IMDG, IATA

· Class not regulated

(Contd. on page 7)

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Ashford Formula

· Packing group

· DOT, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code
UN "Model Regulation":
Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

Silicic acid, sodium salt

· Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

(Contd. on page 8)

Printing date 07/21/2015 Reviewed on 06/01/2015

Trade name: Ashford Formula

(Contd. of page 7)

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Wear protective gloves.

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Services
- · Contact: Dave Hoyt
- Date of preparation / last revision 07/21/2015 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

US-



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1. Identification

Product identifier used on the label

MasterKure CC 160WB

Recommended use of the chemical and restriction on use

Recommended use*: Product for construction chemicals Recommended use*: for industrial and professional users

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: No data available.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Resp. Sens.

1 Respiratory sensitization
Skin Sens.

1 Skin sensitization
Carc.

2 Carcinogenicity
People 2 (fortility)
Respiratory sensitization
Skin sensitization
Carcinogenicity

Repr. 2 (fertility) Reproductive toxicity
Repr. 1B (unborn child) Reproductive toxicity

Aquatic Acute 3 Hazardous to the aquatic environment - acute Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Label elements

Pictogram:



Signal Word: Danger

Hazard Statement:

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

H360 May damage the unborn child. Suspected of damaging fertility.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P201 Obtain special instructions before use. P273 Avoid release to the environment.

P202 Do not handle until all safety precautions have been read and

understood.

P284 In case of inadequate ventilation wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage): P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u> <u>Weight %</u> <u>Chemical name</u> 64742-95-6 >= 3.0 - < 5.0% solvent naphtha

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95-63-6 25340-17-4 84-74-2 107-21-1 67-56-1 112-34-5 98-82-8 7727-54-0	>= 1.0 - < 3.0% >= 0.2 - < 0.3% >= 0.2 - < 0.3% >= 0.1 - < 1.0% >= 0.1 - < 1.0% >= 0.1 - < 1.0% >= 0.0 - < 0.2%	1,2,4-trimethylbenzene Benzene, diethyl- dibutyl phthalate ethylene glycol Methanol Butyl diglycol cumene Peroxydisulfuric acid ([(He	O)S(O)2]2O2), diammonium salt

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

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Hazards during fire-fighting:

harmful vapours, nitrogen oxides, fumes/smoke, carbon black, carbon oxides See MSDS section 10 - Stability and reactivity.

Advice for fire-fighters

Protective equipment for fire-fighting: Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed. For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Product is not explosive.

Conditions for safe storage, including any incompatibilities

Observe VCI storage rules.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Protect from temperatures below: 5 °C

The packed product must be protected from temperatures below the indicated one.

Protect from temperatures below: 40 °F

The packed product must be protected from temperatures below the indicated one.

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8. Exposure Controls/Personal Protection

Components with occupational exposure limits

dibutyl phthalate OSHA PEL PEL 5 mg/m3; TWA value 5 mg/m3;

ACGIH TLV TWA value 5 mg/m3;

1,2,4-trimethylbenzene OSHA PEL TWA value 25 ppm 125 mg/m3;

ACGIH TLV TWA value 25 ppm;

Peroxydisulfuric acid

([(HO)S(O)2]2O2), ACGIH TLV TWA value 0.1 mg/m3 (persulfate);

diammonium salt

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection:

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid

Odour: characteristic, slight odour

Odour threshold: No applicable information available.

Colour: milky white pH value: slightly alkaline

Melting point: No applicable information available.

Boiling point: 153.33 - 205.00 °C

Sublimation No applicable information available.

temperature:

Flash point: $> 151 \, ^{\circ}\text{C}$ (closed cup) Flammability: Flammable. (derived from flash

point)

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Lower explosion limit: 0.9 %(V)

(23 °C)

Upper explosion limit: 15.3 %(V)

(23°C)

Autoignition: Study does not need to be conducted. Vapour pressure: The product has not been tested.

Density: 1 g/cm3

(20°C)

Relative density: No applicable information available.

Bulk density: not applicable
Vapour density: Heavier than air.
Partitioning coefficient n- No data available.

octanol/water (log Pow):

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic:
Viscosity, kinematic:
Solubility in water:
Solubility (quantitative):
Solubility (qualitative):
Solubility (qualitative):
No applicable information available.
No applicable information available.
No applicable information available.
No applicable information available.

Other Information: If necessary, information on other physical and chemical

parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

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Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Based on available Data, the classification criteria are not met.

Oral

No applicable information available.

<u>Inhalation</u>

No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: No irritation is expected under intended use and appropriate handling. Based on available Data, the classification criteria are not met.

Sensitization

Assessment of sensitization: May cause sensitization by inhalation and skin contact.

Aspiration Hazard

No data available.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

Information on: dibutyl phthalate

Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.

Information on: Butyl diglycol

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility

impairing effect.

Teratogenicity

Revision date : 2018/11/26 Page: 8/10 Version: 6.0 (30605598/SDS_GEN_US/EN)

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Information on: ethylene glycol

Assessment of teratogenicity: Developmental toxicity was observed after oral ingestion of high doses in studies with rats and mice, but this effect was not seen in a study with rabbits. Mechanistic studies show that the rabbit is the relevant species for the classification for human health. As such, and since ethylene glycol is not a developmental toxicant in the rabbit, no classification is warranted. However, the relevance of this result for humans is unclear.

Information on: dibutyl phthalate

Assessment of teratogenicity: The results of animal studies gave indication of a developmental toxic/teratogenic effects with high doses.

Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

The product has not been tested.

Bioaccumulative potential

Assessment bioaccumulation potential

Discharge into the environment must be avoided.

Mobility in soil

Assessment transport between environmental compartments No data available.

Additional information

Other ecotoxicological advice:

May cause long-term adverse effects in the aquatic environment.

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13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

<u>CAS Number</u> <u>Chemical name</u> 95-63-6 1,2,4-trimethylbenzene

CERCLA RQ 100 LBS 1330-20-7; 123- 21-1 23-20-7; 123-20-7

State regulations

State RTK	CAS Number	Chemical name
NJ	95-63-6	1,2,4-trimethylbenzene
	67-56-1	Methanol
	84-74-2	dibutyl phthalate
PA	95-63-6	1,2,4-trimethylbenzene

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Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including CUMENE, which is known to the State of California to cause cancer, and ETHYLENE GLYCOL (INGESTED), which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2018/11/26

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. **END OF DATA SHEET**



Revision date : 2012/10/16 Page: 1/6
Version: 2.1 (30605600/SDS_GEN_CA/EN)

1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

IRRITANT. Irritating to eyes. Avoid contact with eyes.

State of matter: liquid Colour: milky white Odour: acrylic-like

Potential health effects

Acute toxicity:

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

May cause slight irritation to the eyes. May cause slight irritation to the skin. May cause slight irritation to the respiratory tract. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Revision date: 2012/10/16 Page: 2/6 Version: 2.1 (30605600/SDS GEN CA/EN)

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Potential environmental effects

Aquatic toxicity:

The product has not been tested.

Bioaccumulation / bioconcentration:

Discharge into the environment must be avoided.

3. Composition / Information on Ingredients

CAS NumberContent (W/W)Hazardous ingredients770-35-4>= 3.0 - <= 7.0 %</td>1-phenoxypropan-2-ol

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point: 116 °C Lower explosion limit: 0.7 %(V) Upper explosion limit: 9.4 %(V)

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

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Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage

General advice:

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

Temperature tolerance

Protect from temperatures below: 0 °C

PROTECT FROM FREEZING DURING THE COLD-SEASON (BELOW 40°F / 5°C).

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves.

Eve protection:

Safety glasses with side-shields.

Body protection:

depending upon conditions of use., Cover as much of the exposed skin as possible to prevent all skin contact., light protective clothing

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General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid
Odour: acrylic-like
Odour threshold: No data available.
Colour: milky white

pH value: slightly alkaline

Boiling point: 242.8 °C

Vapour pressure: No data available.

Density: 1.0312 g/cm3 (20 °C)
Bulk density: not applicable
Vapour density: Heavier than air.
Partitioning coefficient n- No data available.

octanol/water (log Pow):
Viscosity, dynamic:
Solubility in water:
No data available.
partly soluble

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: carbon oxides

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Irritation / corrosion

Information on: 1-phenoxypropan-2-ol Assessment of irritating effects:

Not irritating to the skin. May cause severe damage to the eyes.

Eye:

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Version: 2.1 (30605600/SDS GEN CA/EN)

Information on: 1-phenoxypropan-2-ol

Species: rabbit Result: Irritant.

Method: Guideline 92/69/EEC, B.5

Other Information:

The product has not been tested. Avoid exposure.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Inherently biodegradable.

The insoluble fraction can be removed by mechanical means in suitable waste

water treatment plants.

Other adverse effects:

The product has not been tested. Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Recommendations: Use excess product in an alternate beneficial application. Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Revision date: 2012/10/16 Page: 6/6 Version: 2.1 (30605600/SDS GEN CA/EN)

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D2B: Materials Causing Other Toxic Effects - Toxic

material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations msds@basf.com BASF HOTLINE (800) 454 – COPE (2673) MSDS Prepared on: 2012/10/16

END OF DATA SHEET



Revision date : 2012/09/26 Page: 1/6
Version: 2.0 (30370459/SDS_GEN_CA/EN)

1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

May cause severe irritation to eyes. Irritating to eyes.

State of matter: liquid Colour: clear Odour: odourless

Potential health effects

Acute toxicity:

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

May cause severe irritation to eyes. Irritating to skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: No reliable data was available concerning repeated dose toxicity.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Revision date: 2012/09/26 Page: 2/6 Version: 2.0 (30370459/SDS GEN CA/EN)

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

Eye irritation

Potential environmental effects

Aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation / bioconcentration:

Discharge into the environment must be avoided.

3. Composition / Information on Ingredients

<u>CAS Number</u> <u>Content (W/W) Hazardous ingredients</u> 1344-09-8 >= 10.0 - <= 30.0 % Silicic acid, sodium salt

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water. Seek medical attention.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point:

A flash point determination is unnecessary due to the high water content.

Flammability: does not ignite

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

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Version: 2.0 (30370459/SDS_GEN_CA/EN)

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

Storage

General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight.

Temperature tolerance

Protect from temperatures below: 0 °C

PROTECT FROM FREEZING DURING THE COLD-SEASON (BELOW 40°F / 5°C).

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

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General safety and hygiene measures:

In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid Odour: odourless

Odour threshold: No data available.

Colour: clear pH value: approx. 11.4

Information on: Water

Melting point: 0 °C

Information on: Water

Boiling point: 100 °C

Information on: Water

Vapour pressure: 23.4 hPa (20 °C) Literature data.

Density: approx. 1.41 g/cm3 (20 °C)

Solubility in water: (20 °C) soluble

Miscibility with water: (20 °C) miscible in all proportions

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Irritation / corrosion

Information on: Silicic acid, sodium salt

Assessment of irritating effects:

Corrosive! Damages skin and eyes. Causes temporary irritation of the respiratory tract.

Other Information:

Revision date : 2012/09/26 Page: 5/6 Version: 2.0 (30370459/SDS GEN CA/EN)

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Inherently biodegradable.

The insoluble fraction can be removed by mechanical means in suitable waste

water treatment plants.

Other adverse effects:

Ecological data are not available. Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in a licensed facility.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

Revision date : 2012/09/26 Page: 6/6 Version: 2.0 (30370459/SDS_GEN_CA/EN)

WHMIS classification: D2B: Materials Causing Other Toxic Effects - Toxic

materia



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations msds@basf.com BASF HOTLINE (800) 454 – COPE (2673) MSDS Prepared on: 2012/09/26

END OF DATA SHEET

Material Safety Data Sheet for UltraCure NCF

Adhesive

TYPE: Hot Melt Adhesive

PHYSICAL PROPERTIES: Appearance: Light yellow solid

Solids: 100%

Viscosity: Approx. 4,900 cps @ 275_F

Approx. 3,200 cps @ 300_F Approx. 1,850 cps @ 325_F Lbs./gallon: Approx. 7.8

Softening Point: Approx. 235 F (Ball & Ring)

SUGGESTED USES: Construction adhesive - Nonwovens.

OPERATING CONDITIONS: Running temperature 275_F - 350_F.

Can be applied by all conventional hot melt applicators

including roll, nozzle, spray, foam.

PRECAUTIONS: Material is applied hot - appropriate clothing and eye

protection should be used. Use with adequate ventilation

to remove any hot melt fumes or vapors that are generated. Keep containers and premelters covered to avoid contamination. Rotate stock - first in - first out. Do

not mix with other adhesives.

PACKAGE: 3.5 lb. per block, cavity package.

Airlaid

1. IDENTIFICATION

Article: Thermal Bonded Airlaid Material

Possible Application: Absorption material, acquisition material, etc.

Telephone: 1-866-913-8363

2. INFORMATION ON INGREDIENTS

Composition: cellulose, polyolefines

3. HAZARD IDENTIFICATION

Ingestion: can absorb liquid

Route(Inhalation?	Skin?	Ingestion?
s) of	Excessive dust	NOT APPLICABLE FOR	NOT APPLICABLE FOR
Entry	concentrations may cause	PRODUCT IN	PRODUCT IN
·	unpleasant deposit or	PURCHASE FORM.	PURCHASE FORM.
	obstruction in the nasal		
	passages. Remove to		

fresh air. Get medical help
if persistent irritation,
severe coughing or
breathing difficulty occurs.

Health Hazards (Acute and Chronic)
NOT A HEALTH HAZARD AS DEFINED BY OSHA

Carcinogenicity
NTP?
Listing:

NOT LISTED

ROT LISTED

NOT REGULATED

Signs and Symptoms of Exposure

PAPER (cellulose) DUST IS A BIOLOGICALLY INERT DUST THAT HAS LITTLE OR NO EFFECT ON THE LUNGS AND DOES NOT PRODUCE SIGNIFICANT ORGANIC DISEASE OR TOXIC EFFECT WHEN ALLOWABLE EXPOSURE LIMITS ARE MET.

Medical conditions Generally Aggravated by Exposure

CELLULOSE DUST MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS OR ALLERGIES.

Emergency and First Aid Procedures

EYE CONTACT: IRRIGATE WITH WATER FOR 15 MINUTES. IF ANY IRRITATION PERSISTS OBTAIN MEDICAL ADVICE.

SKIN CONTACT: NOT APPLICABLE FOR PRODUCT IN PURCHASE FORM.

INGESTION: NOT APPLICABLE FOR PRODUCT IN PURCHASE FORM INHALATION: REMOVE ANY MATERIAL FROM THE MOUTH AND FREE THE AIRWAY.

REMOVE THE PATIENT TO FRESH AIR. IF BREATHING HAS STOPPED OBTAIN

MEDICAL ASSISTANCE IMMEDIATELY.

4. FIRST AID MEASURES

Ingestion: seek medical aid

(no others applicable)

5. FIRE FIGHTING MEASURES

Extinguishing media: water

Special fire fighting measures: ABC powder, foam

6. ACCIDENTAL RELEASE MEASURES

(none required)

7. HANDLING AND STORAGE

Handling: no special safety measures required

Storage conditions: avoid moisture; keep in dry place away from

open flame

8. EXPOSURE CONTROLS

(none required)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid
Odour: odourless
Melting Point/Range: not applicable

Boiling Point/Range: not applicable for this product

Vapour pressure:not applicableFlash point:not applicableAutoignition:~ 230 °C (cellulose)Specific density:see specification sheet

Solubility in water: insoluble pH-value: not applicable Viscosity: not applicable

10. STABILITY AND REACTIVITY

Stability: stable Reactivity: non reactive

Decomposition: combustion products include carbon monoxide

and carbon hydrates

11. TOXICOLOGICAL INFORMATION

This product and its ingredients are not toxic, not irritant and not carcinogenic.

12. ECOLOGICAL INFORMATION

This product is partial biodegradable.

13. DISPOSAL CONCIDERATION

Disposal of the product:

This product may be disposed of by

incineration, in approved landfill tips or by other authorised means. Observe local regulations.

Waste description: cellulose, polyolefines.

14. TRANSPORT INFORMATION

Does not belong to dangerous goods according to transport regulations.

15. REGULATORY INFORMATION

No regulatory information is relevant to the usage of this product.

16. OTHER INFORMATION

For further information, please refer to raw materials MSDS.

SECTION 1: PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: This MSDS is applicable to all polyethylene based films used in manufacturing by McDonald Technology Group.

CHEMICAL NAME:

Polyethylene or Ethylene-Olefin Copolymer

CHEMICAL FAMILY:

Ethylene-Based Polymer

PRODUCT DESCRIPTION:

A thin film based upon Polyethylene polymers

EMERGENCY TELEPHONE NUMBER: 1-866-913-8363

SECTION 2: HAZARDOUS INGREDIENT INFORMATION

This product is not hazardous as defined in, 29 CFRI910.1200

SECTION 3 HEALTH INFORMATION & PROTECTION

NATURE OF HAZARD

EYE CONTACT:

Particulates may scratch eye surfaces/cause mechanical irritation.

SKIN CONTACT:

Negligible hazard at ambient temperatures (-18 to +38 degrees C; 0 to 100 degrees F). Exposure to hot material may cause thermal burns.

INHALATION:

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F) Vapors and/or aerosols, which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Low order of toxicity.

INGESTION:

Minimal toxicity.

FIRST AID EYE CONTACT:

This product is an inert solid. If piece gets in eye, remove as one would any foreign object.

SKIN CONTACT:

For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. **No** attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.

INHALATION:

First aid is normally not required

INGESTION:

First aid is normally not required.

WORKPLACE EXPOSURE LIMITS

OSHA REGULATION 29CFRI910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

5 mg/m3 (respirable dust), and 15 mg/m3 (total dust) based on the OSHA PEL for nuisance dust.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

a TWA of 10 mg/m3 (total dust) for nuisance dust.

PRECAUTIONS

PERSONAL PROTECTION:

For open systems at ambient temperature (-18 to 38 degrees C) where contact is likely, wear safety glasses with side shields.

Where contact may occur with hot material. Wear thermal resistant gloves, arm protection, and a face shield.

VENTILATION:

Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit. See personal protection recommendations.

SECTION 4 FIRE & EXPLOSION HAZARD

FLASHPOINT: 649 Deg F. METHOD: ASTM E136 NOTE:

Estimated Minimum

FLAMMABLE LIMITS: n/a NOTE: Not

applicable

AUTOIGNITION TEMPERATURE: 649 Deg F. NOTE:

Estimated Minimum

GENERAL HAZARD:

Solid material may burn at or above the flashpoint, and airborne dust may explode if ignited. Toxic gases will form upon combustion.

Static Discharge, material can accumulate static charges, which can cause an incendiary electrical discharge

FIRE FIGHTING:

Use water spray to cool fire-exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protection required for fire fighting personnel.

HAZARDOUS COMBUSTION PRODUCTS:

Oxygen-lean conditions may produce carbon monoxide and irritating smoke.

SECTION 5 SPILL CONTROL/ACCIDENTAL RELEASE PROCEDURE

(applicable to material in pellet form only)

LAND SPILL:

Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL

Plastic pellets are defined by the US EPA under the Clean Water Act (40CFRI22.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties. Skim from surface.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Recover the spilled material and place in suitable containers for recycle or disposal.

SECTION 6: NOTES

NOTES:

SPECIAL PRECAUTIONS:

Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures. It is recommended that the current ACGIH-TLVs for these materials be observed.

HAZARD RATING SYSTEMS:

This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)
National Fire Protection Association (NFPA 704)
Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY	
HEALTH	2	2	4 =	Severe
FLAMMABILITY	1	1	3 =	Serious
REACTIVITY	0	0	2 =	Moderate
			I =	Slight
			0 =	Minimal

SECTION 7: REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT HAZARD CLASS: Not regulated

DOT IDENTIFICATION NUMBER: Not Available

FLASHPOINT: 649 Deg F. METHOD: AS1-M E136 NOTE: Estimated Minimum

TSCA:

This product is listed on the TSCA Inventory.

CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:

Under the provisions of Title III, Sections 311/3i2 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Not Hazardous.

This product does not contain Section 313 Reportable Ingredients.

SECTION 8 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

SPECIFIC GRAVITY: VAPOR PRESSURE, mmHg at 'F:

0.92 0.970 Not applicable

SOLUBILITY IN WATER, WT. VISCOSITY OF LIQUID, CST AT 'F:

Insoluble Not applicable

SP. GRAV. OF VAPOR, at 1 atm (air=1) FREEZING/MELTING POINT, 'F

Not applicable 225 to 229 Deg F

EVAPORATION RATE, n-Bu Acetate=I: BOILING POINT, . F:

Not applicable Not applicable

SECTION 9: REACTIVITY DATA

STABILITY: HAZARDOUS POLYMERIZATION:

Stable Will not occur

CONDITIONS TO AVOID INSTABILITY:

Temperatures over 650 F (343 C) may cause resin degradation.

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Fluorine

Strong Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Not applicable

SECTION 10: STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

Yes, use proper grounding procedure

STORAGE TEMPERATURE, 'F:

Ambient

LOADING/UNLOADING TEMPERATURE, 'F:

Ambient

STORAGE/TRANSPORT PRESSURE, mmHg:

Atmospheric

VISC. AT LOADING/UNLOADING TEMP.. cST:

Solid

REVISION SUMMARY: (NA)

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR TECHNICAL SALES

REPRESENTATIVE 1-866-913-8363

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.

This material safety data sheet and the information contained is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet, which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations



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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): E-Cure

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Water Based Concrete Cure

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600

Company Address Cont: Kansas City, MO 64108 Business Phone: (816) 968-5600

Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Current Revision: February 3, 2015
Date of Last Revision: May 6, 2010

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear/hazy liquid with no odor.

<u>Health Hazards</u>: Corrosive: Contact with skin and eyes may cause burns. May be harmful if

swallowed.

<u>Flammability Hazards</u>: This product is not a flammable liquid.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated,

however release may cause long term adverse environmental effects.

US DOT Symbols Not Regulated



EU and GHS Symbols

Signal Word Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

215-687-4 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Sodium Silicate N

2.2 Label Elements:

GHS Hazard Classifications: Acute Toxicity, Oral Category 4
Skin Corrosion Category 1

Response Statements:



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Hazard Statements: Eye Damage Category 1
H302 Harmful if swallowed

H314 Causes severe skin burns and eye

damage

Precautionary Statements: P260 Do not breathe dust or mists.

P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using

this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse

mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P363 Wash contaminated clothing before

reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON

CENTER/doctor.

P321 Specific treatment -see supplemental first

aid instruction.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Storage Statements: P405 Store locked up.

Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: Mist or spray may cause irritation, cough, shortness of breath, or sore throat

Skin Contact: Corrosive material may cause redness, skin burns, or blisters.

Eye Contact: Corrosive material may cause irritation with possible burns and tissue damage.

Ingestion: May cause nausea, vomiting, diarrhea, and abdominal pain.

Chronic: No data available.

Target Organs:
Acute: Skin, Eyes
Chronic: N/A

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS



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Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Sodium Silicate N < 50% 1344-09-8 215-6				Acute Tox. 4, Skin Corr. 2, Eye Dam. 1
Relance of other ingredients are non-hazardous or less than 1% in concentration for 0.1% for carcinogens, reproductive toxins, or				

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin and eyes may cause burns.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:



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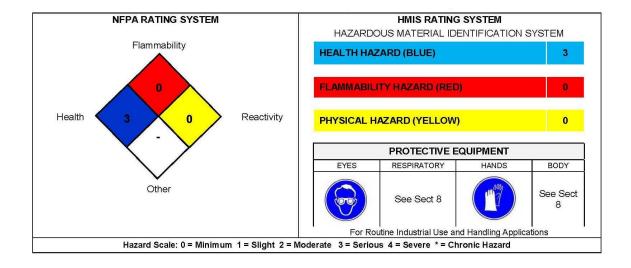
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Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:



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- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Water based sodium silicate concrete cure.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Sodium Silicate N	1344-09-8	Not Listed	Not Listed

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the

Hand Protection:

Body Protection:



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European Standard EN149, or EU member

states.

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to

prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards. Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Clear/hazy liquid

Odor: None

Odor Threshold: No data available

pH: 11.0-13.0

Melting/Freezing Point: No data available

Boiling Point: >212°F (100°C) Flash Point: Not available

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: Not data available

Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available

Specific Gravity: 1.2 Solubility in Water: Soluble

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available



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Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:
 10.4 Conditions to Avoid:
 10.5 Incompatible Substances:
 10.6 Hazardous Decomposition Products: No data available.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Sodium Silicate N 1344-09-8 LD50 Oral – Rat 1960mg/kg

Suspected Cancer Agent: Ingredients within this product are not found on one or more of

the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be cancer-

causing agents by these agencies.

Irritancy: This product is expected to cause irritation to the skin, eyes

and respiratory system.

Sensitization to the Product: This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: This product contains ingredients that are suspected to be a

germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Sodium Silicate N | 1344-09-8 | LC50 – Fish | 1108 mg/l

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS



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13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

Proper Shipping Name:
Hazard Class Number and Description:
Packing Group:

DOT Label(s) Required:

Not applicable
Not applicable
Not applicable

North American Emergency

Response Guidebook Number: Not applicable

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are not designated by

Not regulated.

the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User: None

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number:

Proper Shipping Name:
Hazard Class Number and Description:
Packing Group:

EMS-No:

Not applicable
Not applicable
Not applicable
Not applicable

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known



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California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: February 3, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is



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current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: CS-309_m-25 OTC Part Number: 3515000

Manufacturer:W. R. Meadows₀, Inc.Address: 300 Industrial DriveTelephone:(847) 214-2100Hampshire, Illinois 60140

Revision Date: 3/29/2019 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Product Use: Concrete Cure/Sealer

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS HAZARD STATEMENTS

|Health| |1| DANGER!

|Flammability| |3| Highly flammable liquid and vapor.

|Reactivity| |0| Harmful if Inhaled. Causes skin/eye/respiratory irritation.

| Personal Protection | Prolonged/repeated exposure may cause organ damage.

May be fatal if ingested and enters airways.

PRECAUTIONARY STATEMENTS

Keep containers closed when not in use/avoid ignition source

Avoid breathing vapors and direct contact.

Store in well-ventilated location.

Wear appropriate Personal Protective Equipment. Use only outdoors or in well-ventilated areas.

<u>Chemical Name</u> :	CAS Number	% by Weight	SARA <u>313</u>	Vapor Pressure (mm Hg@20°C)	LEL (@25°C)	
1. Acetone	67-64-1	25-30	No	24 kPa	2.6	
2. Proprietary Solvent Blend	N/E	45-50	No	N/E	N/E	N/A = Not Established
		040 (=:				

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If irritation or redness develops, move victim from exposure source and into fresh air. Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water; remove contaminated shoes/clothing. If symptoms persist, seek medical attention.

INHALATION: If respiratory symptoms develop, move victim from exposure source and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel.

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: -4 °F (For Acetone)

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Personal protective equipment should include helmet, face shield, bunker coat, gloves, rubber boots, and a positive-pressure NIOSH-approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Evacuate all non-essential personnel from immediate area. Remove/extinguish ignition sources. A vapor-suppressing foam may be used to reduce vapor generation. Absorb with non-combustible absorbent and place in sealed containers for disposal. Control run-off and prevent from entering waterways, sewers, etc... Use non-sparking tools to collect spilled material as well as contaminated absorbent.

Date of Preparation: 3/29/19 Page 2 of 3 3515000

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. Use adequate grounding when decanting. **SAFE STORAGE:** Keep containers closed when not in use. Keep away from ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA								
Chemical Name:	<u>PEL</u>	PEL/CEILING	PEL/STEL	<u>SKIN</u>	<u>TWA</u>	TLV/CEILING	TLV/STEL	<u>SKIN</u>
1. Acetone	1000 ppm	N/E	N/E	Yes	500 ppm	N/E	750 ppm	Yes
2. Proprietary Solvent Blend	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
N/F: Not Established						hlished		

ENGINEERING CONTROLS: Use with adequate ventilation. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/E VAPOR DENSITY: >1 (Air=1) % VOLATILE BY VOLUME: N/E
EVAPORATION RATE: <1 (Ether=1) pH LEVEL: N/A % VOLATILE BY WEIGHT: 75
WEIGHT PER GALLON: 7.43 PRODUCT APPEARANCE: Clear Liquid VOC CONTENT: 338 g/L
ODOR: Solvent ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

FLASH POINT: See Section 5 FLAMMABILITY: N/D UEL/LEL: N/D

VAPOR PRESSURE: N/D RELATIVE DENSITY: N/D SOLUBILITY: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Static discharge, heat, sparks, open flame, and strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide/dioxide, incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild to moderate irritation. Product vapors may also cause irritation.

SKIN CONTACT: Direct contact may cause mild skin irritation. Prolonged/repeated contact may result in irritation/dermatitis. **INHALATION:** Exposure may produce irritation to the nose, throat, respiratory tract, and other mucous membranes. Exposure to excessive vapor concentrations may cause signs of transient central nervous system depression (headache, drowsiness, loss of coordination, and fatigue). Repeated/prolonged occupational overexposures may result in permanent damage and can be potentially fatal.

INGESTION: This product is anticipated to be slightly toxic. If ingested and lung aspiration occurs serious lung damage may result. Ingestion of excessive quantities may result in symptoms of central nervous system depression.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of gastrointestinal irritation include abdominal pain, vomiting and diarrhea. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, reduced lung function, and symptoms of central nervous system depression.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, lung, liver, kidney, central nercouse system, male reproductive, immune, and auditory systems may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: Prolonged/repeated exposure may affect the central nervous system. Animal studies have shown fetal harm. The relevance to humans is uncertain. Target organs include the kidneys, liver, spleen, adrenals, lungs, central nervous system, and cardiovascular system.

SECTION 12: ECOLOGICAL INFORMATION						
ECOTOXICITY: N/E	DEGRADABILITY: N/E	BIOACCUMULATIVE POTENTIAL: N/E				
SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None recognized.						
SECTION 13: WASTE DISPOSAL INFORMATION						

WASTE DISPOSAL INFORMATION: Product is considered a hazardous waste for disposal purposes. Appropriate for fuel blending/incineration.

Date of Preparation: 3/29/19 Page 3 of 3 3515000

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Hazardous.

UN NUMBER: 1866 HAZARD CLASS: 3 PACKING GROUP: II

UN PROPER SHIPPING NAME: Resin Solution.

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

BULK TRANSPORTATION INFORMATION: Not applicable. Product not shipped in bulk configuration.

SPECIAL PRECAUTIONS: Keep containers closed. Avoid ignition sources.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 3/29/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: 1100 Part Number: 3011000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 8/31/2018

Product Use: Concrete Curing Compound

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HAZARD STATEMENTS

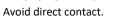
HMIS WARNING!

 | Health |
 | 1 |
 May cause skin irritation.

 | Flammability |
 | 0 |
 May cause eye irritation.

 | Reactivity |
 | 0 |
 May cause respiratory irritation.

 | Personal Protection |
 | PRECAUTIONARY STATEMENTS



Avoid of inhalation of mists/vapors.

SECTION 3: HAZARDS COMPONENTS

SARA Vapor Pressure LEL

Chemical Name: CAS Number % by Weight 313 (mm Hg@20°C) (@25°C)

1. Light Aromatic Naphtha 64742-95-6 5-10 No 2.1 1

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

N/A: Not Applicable

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with water for fifteen minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Remove contaminated shoes/clothing. Wipe excess from skin and wash with soap if available. Seek medical attention if irritation persists. Do not use clothing until throughly decontaminated.

INHALATION: Remove victim to fresh air and treat symptomatically. Seek medical attention if symptoms persist.

INGESTION: Do not induce vomiting. If vomiting spontaneously occurs, keep the victim's head below the hips to prevent lung aspiration.

Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: >210 °F

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon dioxide, carbon monoxide, and incomplete combustion products.

OSHA

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Personal protective equipment should include helmet,

face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH-approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate unauthorized personnel from spill area. Wear appropriate personal protective equipment. Shut off source of spill if safe to do so. Dike and contain. Recover free product and soak up residue with an absorbent, such as clay or other suitable material. Place in non-leaking containers for proper disposal. Flush area to remove trace residues. Dispose of flush solutions as above.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.

SAFE STORAGE: Keep containers closed when not in use. Prevent product from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH

Chemical Name: PEL **PEL/CEILING** PEL/STEL TLV/CEILING **SKIN TLV/STEL SKIN** <u>TWA</u> 1. Light Aromatic Naphtha N/E N/E N/E N/E N/E N/E N/E N/E

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

N/E: Not Established

Date of Preparation: 8/31/18 Page 2 of 2 3011000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:212 °FVAPOR DENSITY: > 1 (Air=1)% VOLATILE BY VOLUME:85EVAPORATION RATE:9H LEVEL:8.80% VOLATILE BY WEIGHT:84WEIGHT PER GALLON:8.33PRODUCT APPEARANCE:Tan LiquidVOC CONTENT:278 g/LODOR:Mild OrganicODOR THRESHOLD:N/DMELTING/FREEZING POINT:N/D

FLASH POINT: See Section 5 FLAMMABILITY: N/D UEL/LEL: N/D

VAPOR PRESSURE: N/DRELATIVE DENSITY: N/DSOLUBILITY: N/DPARTITION COEFFICENT: N/DAUTOIGNITION TEMPERATURE: N/DDECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents. **HAZARDOUS DECOMPOSITION PRODUCTS:** None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild to moderate irritation. Product vapors/mists may also cause irritation.

SKIN CONTACT: Direct contact may result in mild to moderate irritation.

INHALATION: Not expected to be an exposure pathway under normal use conditions. **INGESTION:** Not expected to be an exposure pathway under normal use conditions.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, and rash. Symptoms of respiratory irritation include runny nose, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: N/E

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Non-hazardous.

UN NUMBER: None. HAZARD CLASS: None. PACKING GROUP: None.

UN PROPER SHIPPING NAME: Not regulated. **ENVIRONMENTAL HAZARDS:** Not applicable.

BULK TRANSPORTATION INFORMATION: Not regulated when shipped in bulk configuration.

SPECIAL PRECAUTIONS: Protect product from freezing.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 8/31/2018
PREPARED BY: Dave Carey

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Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: 1600 Series Part Number: 3016000

Manufacturer: W. R. Meadows, Inc. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 8/31/2018

Product Use: Concrete Curing Compound

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS

| Health | 1 | Product is classified as non-hazardous per OSHA 1910.1200. | Flammability | 0 |

|Reactivity| |0| |Personal Protection| | |

SECTION 3: HAZARDS COMPONENTS

LEL **Vapor Pressure** SARA % by **Chemical Name: CAS Number** 313 (mm Hg@20°C) (@24°C) Weight 13463-67-7 N/A N/A 1 Titanium Dioxide 1-5 No

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthoprization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

N/A = Not Applicable

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water. If irritation persists, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water. If irritation persists, seek medical attention.

INHALATION: Not expected to be an exposure route.

INGESTION: Dilute with liquid unless victim is unconscious or very drowsy. If vomiting occurs, keep head below the hips to prevent lung

aspiration. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: > 210 °F

EXTINGUISHING MEDIA: Not applicable, product will not support combustion.

CHEMICAL/COMBUSTION HAZARDS: None required.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: None required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Remove/contain source of release. Dike/Contain spilled material. Avoid direct contact. Use appropriate absorbents to clean-up residues. Place in sealed containers for proper disposal.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.
SAFE STORAGE: Do not allow product to freeze.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

Chemical Name: TLV/CEILING PEL PEL/CEILING PEL/STEL SKIN TLV TLV/STEL SKIN 1. Titanium Dioxide* N/A N/E N/E N/E N/A N/E N/E

*: This material is in solution. No exposure is anticipated unless the product is dried/abraded. N/E: Not Established N/A: Not Applicable

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 °F VAPOR DENSITY: >1 (AIR=1) % VOLATILE BY VOLUME: 75
EVAPORATION RATE: As Water ph LEVEL: 8.67 % VOLATILE BY WEIGHT: 75

VAPORATION RATE: AS Water ph Level: 8.67 % VOLATILE BY WEIGHT: 75

WEIGHT PER GALLON: 8.25 PRODUCT APPEARANCE: White Liquid VOC CONTENT: 52 to 145 g/L (Product Specific)

ODOR: None ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

 FLASH POINT: See Section 5
 FLAMMABILITY: N/D
 UEL/LEL: N/D

 VAPOR PRESSURE: N/D
 RELATIVE DENSITY: N/D
 SOLUBILITY: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/D: Not Determined

Date of Preparation: 1/31/18 Page 2 of 2 3016000

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized.

HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation. **SKIN CONTACT:** Direct contact may cause slight skin irritation. **INHALATION:** Not anticipated to be an exposure route.

INGESTION: May cause mild irritation of the gastrointestinal tract.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and

swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized. None of the components of this product are recognized as being carcinogenic.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E **OTHER ADVERSE EFFECTS:** None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized. **BULK TRANSPORTATION INFORMATION:** None.

SPECIAL PRECAUTIONS: Protect product from freezing.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 1/31/2018
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

DECRA-SEAL_™ W/B Product: Part Number: 3465000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 8/4/2016 Concrete Sealer **Product Use:**

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS HAZARD STATEMENTS | Health | WARNING! |1|

| Flammability | Skin and respiratory irritant. 101 May cause an allergic skin reaction. |Reactivity| 0 May cause damage to liver and kidneys. | Personal Protection |

PRECAUTIONARY STATEMENTS

Avoid direct contact/breathing mists.

Wear appropriate personal protective equipment.



		% by	SARA	Vapor Pressure	LEL
Chemical Name:	CAS Number	Weight	<u>313</u>	(mm Hg@20°C)	(@25°C)
1. N-Methyl Pyrolidone	872-50-4	1-5	N/E	0.29	1.2
2. Ethylene Glycol Monobutyl Ether	111-76-2	1-5	Yes	0.66	1.1

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40

CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Direct contact may result in mild to moderate irritation. Corneal injury is unlikely.

SKIN CONTACT: Direct contact may cause mild skin irritation. Prolonged/repeated contact may result in skin irritation and dermatitis.

INHALATION: Exposure to mists/sprays may cause irritation of the respiratory tract.

INGESTION: Not anticipated to be an exposure route. If ingested irritation of the gastrointestinal tract may occur. Signs of central nervous system depression (headache, fatigue, drowsiness, dizziness, and loss of coordination) may occur.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: > 200 degrees F

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Full fire fighting gear with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate hazard area of unauthorized personnel. Eliminate source of leak if safe to do so. Dike/contain.

Place spill materials in sealed/marked containers for proper disposal.

SECTION 7: HANDLING AND STORAGE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SAFE HANDLING PROCEDURES: Avoid direct contact.

SAFE STORAGE: Keep containers closed when not in use.

SECTION 6: EXI OSORE CONTROLS/I ERSONALI ROTECTION									
OSHA					ACGIH				
Chemical Name:	<u>PEL</u>	PEL/CEILING	PEL/STEL	SKIN	<u>TWA</u>	TLV/CEILING	TLV/STEL	<u>SKIN</u>	
1. N-Methyl Pyrolidone	N/E	N/E	N/E	No	100 ppm	N/E	N/E	No	
2. Ethylene Glycol Monobutyl Ether	50 ppm	N/E	N/E	Yes	20 ppm	N/E	N/E	Yes	
						٨	I/E: Not Estab	olished	

ENGINEERING CONTROLS: None required under normal conditions of use. PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212° F (for water) **VAPOR DENSITY:** > 1 (air=1) % VOLATILE BY VOLUME: N/E EVAPORATION RATE: <1 (ether=1) **pH LEVEL:** 8.24 % VOLATILE BY WEIGHT: N/E **WEIGHT PER GALLON: 8.60** PRODUCT APPEARANCE: Opaque liquid VOC CONTENT: 204 g/L

Date of Preparation: 8/4/16 Page 2 of 2 3465000

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Flush eyes with water for fifteen minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing/shoes. Cleanse affected areas with mild soap and water. If irritation persists, seek medical

attention.

INHALATION: Remove victim from exposure source. Treat symptomatically.

INGESTION: Dilute with two glasses of water unless the victim is unconscious or very drowsy. If vomiting spontaneously occurs, keep the victim's head below the hips to prevent lung aspiration. Seek immediate medical attention.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, reddening, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing liver, kidney, and lung conditions may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: Target organs include lungs, liver, and kidneys. Ethylene Glycol Monobutyl Ether has been shown to cause cancer in in laboratory animals. The relevance of this finding to humans is uncertain.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: N/E

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste for disposal purposes.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Non-hazardous.

UN NUMBER: None. HAZARD CLASS: None. PACKING GROUP: None.

UN PROPER SHIPPING NAME: None.

ENVIRONMENTAL HAZARDS: None recognized.

BULK TRANSPORTATION INFORMATION: Not applicable. Product is not shipped in bulk configuration.

SPECIAL PRECAUTIONS: None recognized.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 8/4/2016
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/27/2015 Revision date: 02/06/2017 Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SCP 327
Product code : Not available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Concrete treatment

1.3. Details of the supplier of the safety data sheet

Spray-Lock, Inc. 5959 Shallowford Road Suite 405 Chattanooga, TN 37421 - USA T 423-305-6151 info@spraylock.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1 (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

None.

SECTION 3: Composition/information on ingredients

3.1. Substance

Proprietary formula: Colloidal Silica

3.2. Mixture

This mixture does not contain any substances to be mentioned according to Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air.

First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact

lenses, if worn.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never

give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not a normal route of exposure.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Not a normal route of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

02/06/2017 EN (English) Page 1

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Keep unnecessary personnel away from

the release.

6.2. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk.

Methods for cleaning up : Dilute directly spill with plenty of water and drain to sewer.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. When using do not eat,

drink or smoke.

Hygiene measures : Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Protect from sunlight. Do not

freeze. Store at temperatures between 5 °C (40 °F) and 38 °C (100 °F).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : None necessary under normal conditions of use. Wear gloves if handling large quantities.

Eye protection : Wear eye protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds. Other information : Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Translucent
Color : Green
Odor : Odorless

Odor threshold : No data available pH : 11.2 - 11.5

Melting point : No data available

02/06/2017 EN (English) 2/4

Bedrock Concrete SDS Manual Page 135 of 564

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Freezing point : 0 °C (32 °F) : 100 °C (212 °F) Boiling point : No data available Flash point Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) Not flammable **Explosive limits** No data available No data available Explosive properties Oxidising properties No data available Vapour pressure : No data available

Relative density : 1.10

Relative vapour density at 20 °C : No data available Solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : 26 cP @ 25 °C (77 °F)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Acids.

Aspiration hazard

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified.

SCP 327	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.

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: Based on available data, the classification criteria are not met.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Symptoms/injuries after inhalation : Not a normal route of exposure.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Not a normal route of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No known significant effects or critical hazards.

12.2. Persistence and degradability

Persistence and degradability Not established.

12.3. Bioaccumulative potential

S	C	Ρ	3	2	7

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. US State regulations

SCP 327	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer,
	birth defects or other reproductive harm.

SECTION 16: Other information

Date of issue : 08/27/2015
Revision date : 02/06/2017
Other information : None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

31-SDS-SCP-327 Date: 02/06/2017

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SECTION 1 PRODUCT INFORMATION

PRODUCT NAME: Diamond Dowel® pocket former

PRODUCT TYPE: ABS plastic

COMPANY CONTACT: PNA Construction Technologies, Inc.

9 Dunwoody Park, Suite 111

Atlanta, GA 30338 800.542.0214

SECTION 2

CHEMICAL NAME: Acrylonitrile-butadiene-styrene Resin

TRADE NAME: Porene SYNONYMS: ABS

CHEMICAL FAMILY: Thermoplastic Resin MOLECULAR WEIGHT: Not Determined FORMULA: (C23H26N)ⁿ CAS REGISTRY NO.: 9003 – 56 – 9

SECTION 3	INGRI	EDIENTS	
NAME	%	TLV	HAZARDOUS PROPERTY
STYRENE POLYBUTADIENE ACRYLONITRILE OTHERS	>60 <20 <20 <1.5	**200 ppm *1000 ppm	*The vapors are irritating to eyes and mucous membranes. Inhalation of high concentration can cause unconsciousness and death. **Further exposure in irritation of the eyes photophobia, irritation of the nose, deepened respiration.

SECTION 4 PHYSICAL DATA	
APPEARANCE AND ODOR	Pellets, odorless
BOILING POINT (°C)	N/A
MELTING POINT (°C)	> 175
рН	N/A
SPECIFIC GRAVITY	1.04-1.05
VAPOR PRESSURE (mm Hg at 20°C)	N/A
VAPOR DENSITY	N/A

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% VOLATILE, BY VOLUME (150°C)	<0.5%
SOLUBILITY IN WATER	Insoluble
OTHER PHYSICAL AND CHEMICAL DATA	None

SECTION 5 FIRE AND EXPLOSION HAZARD DATA				
FLASH POINT (°C) N/A	AUTOIG N/A	AUTOIGNITION TEMPERATURE N/A		
		N/A		
FLAMMABILITY LIMIT IN AIR (% BY VOL)	Upper	N/A		
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters must be equipped with self-contained breathing apparatus and turn out gear.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	If exposed to fire, high heat will be developed and head black smoke will result. During combustion carbon dioxide will be produced.			

SECTION 6 HEALTH HAZARD DATA		
THRESHOLD LIMIT VALUE	SEE SECTION 3	
EFFECT OF OVEREXPOSURE	N/A	
FIRST AID PROCEDURES		
EYES	If eyes or skin irritation persists, consult a physician.	
FLUSH WITH FLOWING WATER AT LEAST 15 MINUTES	Wash contaminated skin area with soap and water. If vapors are inhaled, move to fresh air. Aid in breathing if necessary and consult a physician.	

SECTION 7 REACTIVITY DATA

STABLE X CONDITION TO AVOID: HEAT, SPARKS, FLAME
UNSTABLE CONDITION TO AVOID: HEAT, SPARKS, FLAME

CHEMICAL INCOMPATIBILITY – Avoid inorganic and organic solvents. Hazardous decomposition product – CO, CO2, NO2.

HAZARDOUS POLYMERIZATION MAY OCCUR			CONDITION TO AVOID:	NONE	
DOES NOT OCCUR		X			
CORROSIVE TO METAL	No.	OXIDE N	No.		

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SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Approved organic vapor or dust respirator, as necessary if there is not adequate ventilation throughout, storage and processing areas.

VENTILATION

Local Exhaust as necessary to control to P.E.L. - Mechanical (General)

EYE PROTECTION Chemical workers goggles recommended.

PROTECTIVE CLOTHING Clean, Body-covering clothing, protective gloves optional.

SECTION 9 ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA N//A

SPILLED AND LEAK PROCEDURES

Spill should be contained and placed in suitable containers for disposal.

HAZARDOUS SUBSTANCE 40CFR 261 No.

WASTE DISPOSAL METHOD

Incinerate or busy as a solid in a licensed facility. Do not discharge into waterways or sewer systems.

HAZARDOUS SUBSTANCE 40CFR 261 No.

CONTAINER DISPOSAL

Dispose of in licensed facility. Recommend incineration or other means to prevent unauthorized refuse.

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SECTION 1 PRODUCT INFORMATION

PRODUCT NAME: Diamond Dowel® tapered plate dowel –1/4" & 3/8"

PRODUCT TYPE: Hot rolled steel bars

COMPANY CONTACT: PNA Construction Technologies, Inc.

9 Dunwoody Park, Suite 111

Atlanta, GA 30338 800.542.0214

SECTION 2 GENERAL INFORMATION

IDENTITY: Hot Rolled Bars FAMILY: Inorganic Compounds

SECTION 3 HAZARDOUS CONSTITUENTS

Constituent	OSHA PEL (mg/M3)	ACGIH TLV (mg/M3)	<u>%</u> Range	CAS #
Aluminum:	<u>(IIIg/IVIO)</u>	<u>(mg/mo)</u>	<u>rturigo</u>	
Fume	5.0	5.0	.001100	7429-90-5
As dust	5.0			
Carbon:				
Not Listed			.01-1.10	7440-44-0
Chromium:	0.5	0.5	.0590	7440-47-3
Soluble Cr salts	1.0	0.5		
Copper (metal):				
As dust	1.0	1.0	.10-1.0	7440-50-8
As Fume	0.1	0.2		
Iron:				
Iron Oxide Fume	10.0		98-99	7439-89-6
Molybdenum:				
Fume	0.1	0.2	.0115	7439-98-7
Nickel (metal):	1.0	1.0	.0575	7440-02-0
Soluble Ni compounds	1.0	1.0		
Manganese:				
Fume	1.0	1.0	.25-1.65	7439-96-5
Phosphorus (yellow)	0.1		.06 max	7723-14-0
Silicon:				
Dust	15.0		.0850	7440-21-3
Sulfur:				
Sulfur Dioxide	13.0	5.0	.00108	7446-09-5

SECTION 4 PHYSI	PHYSICAL AND CHEMICAL CHARACTERISTICS		
APPEARANCE AND ODOR	Dark gray, odorless, metal.		
BOILING POINT	±5000°F		

Diamond Dowel® tapered plate 1/4" & 3/8" MSDS

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MELTING POINT	Approximately 2500°F
рН	N/A
SPECIFIC GRAVITY	(H20 = 1) 2-8.2 (mm Hg)
DENSITY (AT 15.6°C)	N/A
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
% VOLATILE, BY VOLUME	N/A
SOLUBILITY IN WATER	Insoluble
EVAPORATION RATE (BUTYL ACETATE = 1)	N/A
OTHER PHYSICAL AND CHEMICAL DATA	None

SECTION 5 FIRE AND EXPLOSION DATA		
FLASH POINT (°C) N/A	AUTOIGNITION TEMPERATURE N/A	
FLAMMABILITY LIMIT IN AIR (% BY VOL)	Lower N/A	
PLAIVIIVIABILITY LIIVITY IIN AIR (% BY VOL)	Upper N/A	
EXTINGUISHING MEDIA	N/A	
SPECIAL FIRE FIGHTING PROCEDURES	N/A	
UNUSUAL FIRE AND EXPLOSION HAZARDS	N/A	

SECTION 6 STABILITY AND REA	STABILITY AND REACTIVITY	
STABILITY	Stable	
CONDITIONS TO AVOID	N/A	
HAZARDOUS POLYMERIZATION	N/A	
INCOMPATIBILITY (MATERIALS TO AVOID)	Strong acids	
HAZARDOUS DECOMPITION PRODUCTS	Hydrogen gas	



SECTION 7 HAZARDS IDENTIFIC	CATION
EFFECTS OF OVEREXPOSURE	No toxic effects would be expected from inert solid form. Inhalation of metal dust and fumes may result from further processing of the material by the user, particularly during welding, burning, cutting, grinding and machining activities
ACUTE	Short-term intensive exposure to dust may result in irritation to eyes, mucous membranes and respiratory tract. Steel recently produced may be extremely hot.
CHRONIC	Sever pneumonitis, pulmonary disease
CARCINOGENIC	NTP: nickel, chromium IARC: nickel, chromium OSHA: none
SIGNS AND SYMPTOMS OF EXPOSURE	Nausea, tightness of chest, fever, irritation of eyes, nose, throat and skin.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	Chronic lung disease, allergic conditions.
EMERGENCY AND FIRST AID PROCEDURES	Standard first aid procedures – remove to fresh air.

SECTION 8 PRECAUTIONS FOR SAFE HANDLING AND USE	
STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL	N/A
WASTE DISPOSAL METHOD	Material should be reclaimed for re-use; follow local, State and Federal solid waste disposal requirements.

SECTION 9 CONTROL MEASURE	CONTROL MEASURES	
RESPIRATORY PROTECTION	Dust/fume respirator.	
LOCAL EXHAUST	As required to meet PEL.	
PROTECTIVE GLOVES	As needed based on operations	
EYE PROTECTION	As needed	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	May be needed for grinding. Heat resistant face protection, clothing, boots and/or gloves may be necessary.	

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Diamond Dowel® tapered plate 1/4" & 3/8" MSDS

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SECTION 1 PRODUCT INFORMATION

PRODUCT NAME: Diamond Dowel® System installation template

PRODUCT TYPE: ABS plastic

COMPANY CONTACT: PNA Construction Technologies, Inc.

9 Dunwoody Park, Suite 111

Atlanta, GA 30338 800.542.0214

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME: Acrylonitrile-butadiene-styrene Resin; % 90 – 99%

SYNONYMS: ABS

CAS REGISTRY NO.: 9003 – 56 – 9

MAY ALSO CONTAIN:

Mineral Oil 0-2% Tallow 0-2% Wax 0-2%

Styrene monomer 2,000 ppm max Ethylbenzene 1,500 ppm max

SECTION 3 HAZARDS IDENTIFICATION	
EYE	Solid or dust may cause irritation or corneal injury due to mechanical action.
SKIN	Essentially nonirritating to skin. Mechanical injury only. Skin absorption is unlikely due to physical properties.
INGESTION	Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
INHALATION	Dust may cause irritation to upper respiratory tract (nose and throat). At room temperature, exposure to vapors are unlikely due to physical properties; normal processing temperatures may generate vapors which may cause irritation if ventilation is inadequate.
SYSTEMIC (OTHER TARGET ORGAN) EFFECTS	Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

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CANCER INFORMATION	This mixture contains a component(s) which are listed as potential carcinogens for hazard communication purposes under OSHA Standard 29 CFR 1910.1200. Components listed by IARC: styrene monomer. An increase incidence of lung tumors was observed in mice from a recent inhalation on styrene. The relevance of this finding to humans is epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. The very small quantities of monomer, as indicated in Section 2, are not expected to cause any hazardous condition because of the low concentration in the resin. As the resin is supplied, monomer is not likely to be released into the surroundings in toxicologically significant amounts. Monomer may be released during processing of the resin and the hazard may vary from negligible to very low depending on actual exposure conditions. Ethylbenzene has been shown to cause cancer in laboratory animals.
TERATOLOGY (BIRTH DEFECTS)	No relevant information found.
REPRODUCTIVE EFFECTS	No relevant information found.

SECTION 4	FIRST AID	
EYE		Flush eyes with plenty of water; mechanical effects only.
SKIN		No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
INGESTION		If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
INHALATION		Remove to fresh air if effects occur. Consult a physician.
NOTE TO PHYSICIAI	N	No specific antidote. Supportive care. Treatment based on judgment of physician in response to the patient.

FLASH POINT (°C)
N/A

FLAMMABILITY LIMIT IN AIR (% BY VOL)

HAZARDOUS COMBUSTION PRODUCTS

FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE
N/A

Lower
N/A

Hazardous combustion products may include and are not limited to: carbon dioxide, carbon monoxide, acrylonitrlie, hydrogen cyanide and nitrogen oxides.

Diamond Dowel® System installation template MSDS



OTHER FLAMMABILITY INFORMATION	Dense smoke is emitted when burned without sufficient oxygen. Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions, in addition to unidentified toxic and/or irritating compounds.
EXTINGUISHING MEDIA	Water, carbon dioxide, dry chemical.
FIRE FIGHTING INSTRUCTIONS	Soak thoroughly with water to cool and prevent reignition.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves).

SECTION 6 ACCIDENTAL RELE	ACCIDENTAL RELEASE MEASURES	
PROTECT PEOPLE	To prevent falls, sweep up spills and discard.	
PROTECT THE ENVIRONMENT	Plastic resins are inert and benign in terms of their environmental impact. Plastic pellets should not be allowed to enter the aquatic environment.	
CLEANUP	Spills should be minimized and they should be cleaned up when they happen.	

SECTION 7	HANDLING AND STORAGE	
HANDLING	Mechanical handling equipment can cause formation of dusts. Maintain good housekeeping. Dust layers should not be permitted to accumulate in order to avoid any potential for dust explosion hazards. Workers should be protected form the possibility of contact with molten resin during fabrication.	
STORAGE	Do not stack boxes more than three high. Boxes must remain dry. No stacking should be attempted or allowed if boxes are damp or bulging.	

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION		
ENGINEERING CONTROLS	Provide general and/or local exhaust ventilation to control airborne levels below the exposure limits.	
PERSONAL PROTECTIVE EQUIPMENT		
EYE / FACE PROTECTION	Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.	
SKIN PROTECTION	No precautions other than clean body covering clothing should be needed.	
RESPIRATORY PROTECTION	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air purifying respirator. In dusty atmospheres, use an approved dust respirator.	

Diamond Dowel® System installation template MSDS Rev. 9/1/07



EXPOSURE GUIDELINES		
STYRENE MONOMER	ACGIH TLV is 20 ppm TWA, 40 ppm STEL, skin. ACGIH classifies as A4. OSHA PEL is 50 ppm TWA, 100 ppm STEL. The styrene PEL and STEL are in accordance with the OSHA-industry agreement dated March, 1996	
ETHYLBENZENE	ACGIH TLV and OSHA PEL are 100 ppm TWA; 125 ppm STEL. PELS are in accord with those recommended by OSHA, as in the 1989 revision of PELS.	

A "skin" notation following the exposure guidelines refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered. Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the products and no exposure would be expected under normal handling conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Milky white solid, pellets.

ODOR: Low odor VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
BOILING POINT: N/A
SOLUBILITY IN WATER/MISCIBILITY: Nil
SPECIFIC GRAVITY OR DENSITY: 1.05

SECTION 10 STABILITY AND REACTIVITY	
CHEMICAL STABILITY	Under anticipated storage and handling conditions, product is expected to be stable.
CONDITIONS TO AVOID	Temperatures over 280°C, 536°F, will generate increasing levels of fumes from decomposition products.
INCOMPATIBILITY WITH OTHER MATERIALS	None known.
HAZARDOUS DECOMPOSITION PRODUCTS	Refer to Section 5 for hazardous combustion products.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION (see section 3 for potential health effects)	
INGESTION		Single dose oral L050 has not been determined
MUTAGENICITY		No relevant information found.

SECTION 12	EXPOSURE CONTROLS / PERSONAL PROTECTION	
	ENVIRONMENT FATE	



MOVEMENT & PARTITIONING	No bioconcentration is expected because of the relatively high molecular weight (MW >1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.	
DEGRADATION & PERSISTENCE	This water insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.	
ECOTOXICITY		
Not expected to be acutely toxic, but pellets may mechanically cause adverse effects if ingested by waterfowl or aquatic life.		

waterrowr or aquatic life.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL

Dot no dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

For unused and uncontaminated product, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal destruction device.

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according to 29 CFR 1910.1200(g)

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1. Identification

Product identifier

AC200+, Comp. A

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

Uses advised against

no restriction

Details of the supplier of the safety data sheet

Company name: DEWALT Industrial Tool Co.
Street: 701 East Joppa Road
Place: USA Towson, MD 21286

Telephone: +1 800 524-3244 Telefax: +1 877 871-1965

Emergency phone number: CHEMTREC USA: +1 800 424 9300 (24/7)

CHEMTREC International: +1 703 527 3887 (24/7)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Respiratory or skin sensitization: Skin Sens. 1

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

May cause an allergic skin reaction

Precautionary statements

Avoid breathing vapors.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified

Use only outdoors or in a well-ventilated area.

3. Composition/information on ingredients

<u>Mixtures</u>



according to 29 CFR 1910.1200(g)

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Hazardous components

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CAS No	Components	Quantity
2082-81-7	Tetramethylene dimethacrylate	15 - < 20 %
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	< 1 %
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	< 1 %
98-29-3	p-tert-Butylcatechol	< 1 %

Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eves

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Pyrolysis products, toxic

Carbon monoxide

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Supress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



according to 29 CFR 1910.1200(g)

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

Keep container tightly closed in a cool place. storage temperature: 5 - 25°C (41 - 77 F)

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
14808-60-7	Silica, crystalline (as respirable dust)	-	0.05		TWA (8 h)	REL
14808-60-7	Silica, crystalline quartz, respirable dust	(Z-3)	(Z-3)		TWA (8 h)	PEL
14808-60-7	Silica, crystalline quartz, total dust	-	(Z-3)		TWA (8 h)	PEL

Additional advice on limit values

This mixture includes quartz (silica) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded.

Exposure controls



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Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

Eve/face protection

Wear eye protection/face protection. Wear safety goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Should a respirator be needed, follow OSHA regulation for respirator use (29 CFR 1910.134). Wear an air-purifying NIOSH-certified (or equivalent) respirator (with a high efficiency particulate filter) as needed.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Paste Color: light beige

pH-Value: not determined

Changes in the physical state

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

not determined not determined not applicable

Flammability

Solid: not determined Gas: not applicable
Lower explosion limits: not determined Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapor pressure:

Density (at 20 °C):

Water solubility:

The study does not need to be conducted because the substance is known to be insoluble in water.



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Solubility in other solvents

not determined

Partition coefficient:

Vapor density:

not determined

not determined

Evaporation rate:

not determined

Other information

Solid content: not determined

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Response: Oxidising agent, strong

Conditions to avoid

Heat. Keep cool. Protect from sunlight.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.



according to 29 CFR 1910.1200(g)

AC200+, Comp. A

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CAS No	Components					
	Exposure route	Dose		Species	Source	Method
2082-81-7	Tetramethylene dimet	hacrylate				
	oral	LD50 mg/kg	10066	Rat		
	dermal	LD50 mg/kg	> 3000	Rabbit		
27813-02-1	Methacrylic acid, mor	oester with	propane-1,	2-diol		
	oral	LD50 mg/kg	> 2000	Rat		
	dermal	LD50 mg/kg	> 5000	Rabbit		
38668-48-3	1,1'-(p-Tolylimino)dipr	opan-2-ol				
	oral	LD50 mg/kg	27,5	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
98-29-3	p-tert-Butylcatechol					
	oral	LD50 mg/kg	815	Rat		
	dermal	LD50 mg/kg	1331	Rat		

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitizing effects

May cause an allergic skin reaction (Tetramethylene dimethacrylate; Methacrylic acid, monoester with propane-1,2-diol; p-tert-Butylcatechol)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Silica dust, crystalline, in the form of quartz or cristobalite (CAS 14808-60-7) is

listed in group 1.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

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Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)

UN number:No dangerous good in sense of this transport regulation.UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number:No dangerous good in sense of this transport regulation.UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All ingredients of this mixture are included on the TSCA Inventory.

National regulatory information

SARA Section 311/312 Hazards:

Tetramethylene dimethacrylate (2082-81-7): Immediate (acute) health hazard Methacrylic acid, monoester with propane-1,2-diol (27813-02-1): Immediate (acute) health hazard 1,1'-(p-Tolylimino)dipropan-2-ol (38668-48-3): Immediate (acute) health hazard

p-tert-Butylcatechol (98-29-3): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information



according to 29 CFR 1910.1200(g)

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This mixture includes quartz (silica) which is firmly bound in the pasty component, and therefore not freely available during use, so that a risk of dust inhalation is excluded, thus the product does not cause a harm effect. Silica is listed in the Proposition 65 list.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 2
Physical Hazard: 1
Personal Protection: X

NFPA Hazard Ratings

Health: 2
Flammability: 1
Unique Hazard: -



Changes

Revision date: 19.03.2020 Revision No: 1,14

Flammability for HMIS and NFPA ratings not applicable.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IARC: International Agency for Research on Cancer IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observed Effect Concentration

NTP: National Toxicology Program

OECD: Oragnisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Values

TSCA: Toxic Substances Control Act

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)





according to 29 CFR 1910.1200(g)

AC200+, Comp. B

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1. Identification

Product identifier

AC200+, Comp. B

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

compound mortar B-component (hardener)

Uses advised against

no restriction

Details of the supplier of the safety data sheet

Company name: DEWALT Industrial Tool Co.
Street: 701 East Joppa Road
Place: USA Towson, MD 21286

Telephone: +1 800 524-3244 Telefax: +1 877 871-1965

Emergency phone number: CHEMTREC USA: +1 800 424 9300 (24/7)

CHEMTREC International: +1 703 527 3887 (24/7)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Respiratory or skin sensitization: Skin Sens. 1

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

May cause an allergic skin reaction

Precautionary statements

Avoid breathing vapors.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
94-36-0	Dibenzoyl peroxide	5 - < 10 %



according to 29 CFR 1910.1200(g)

AC200+, Comp. B

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Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Pyrolysis products, toxic

Carbon monoxide

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Supress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Environmental precautions

Do not allow to enter into surface water or drains.

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according to 29 CFR 1910.1200(g)

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Methods and material for containment and cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for

taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not use for products which come into contact with the food stuffs.

Store in a well-ventilated place. Keep cool.

Further information on storage conditions

Keep container tightly closed in a cool place. storage temperature: 5 - 25°C (41 - 77 F)

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
94-36-0	Benzoyl peroxide	-	5		TWA (8 h)	PEL
		-	5		TWA (8 h)	REL

Exposure controls







Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.



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Eye/face protection

Wear safety goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134).

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Paste Color: black

Odor: characteristic

pH-Value: not applicable

Changes in the physical state

Melting point/freezing point: not determined Initial boiling point and boiling range: not determined Flash point: not applicable

Flammability

Solid: not determined Gas: not applicable not determined Lower explosion limits: not determined Upper explosion limits:

Auto-ignition temperature

Solid: not determined Gas: not applicable not determined Decomposition temperature:

Oxidizing properties

Not oxidising.

not determined Vapor pressure: Density: 1,77 g/cm³ The study does not need to be conducted Water solubility: because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined Vapor density: not determined Evaporation rate: not determined

Other information

Solid content: not determined

10. Stability and reactivity



according to 29 CFR 1910.1200(g)

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Reactivity

see section 10.3

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Violent reaction with: Oxidising agent

Conditions to avoid

see section 7.2

Incompatible materials

Oxidising agent, strong

Hazardous decomposition products

Benzoic acid Benzene Biphenyl

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
94-36-0	Dibenzoyl peroxide				
	oral	LD50 > 5000 mg/kg	Rat		

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitizing effects

May cause an allergic skin reaction (Dibenzoyl peroxide)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Benzoyl peroxide (CAS 94-36-0) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus)

IC10: (0 - 72h) = 60 mg/lIC50: (0 - 72h) = > 500 mg/l

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OECD 202 (Daphnia magna (Big water flea))

EC0/NOEC (48h) = 100 mg/l EC50 (48h) = > 500 mg/l EC100 (48h) = >> 500 mg/l

OECD 203 (Brachydanio rerio (zebra-fish))

LC0/NOEC = 500 mg/l LC50 = > 500 mg/l LC100 = >>500 mg/l

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

14. Transport information

US DOT 49 CFR 172.101

<u>Proper shipping name:</u> Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)

UN number:No dangerous good in sense of this transport regulation.UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number:No dangerous good in sense of this transport regulation.UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable



according to 29 CFR 1910.1200(g)

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15. Regulatory information

U.S. Regulations

National Inventory TSCA

All ingredients of this mixture are included on the TSCA Inventory.

National regulatory information

SARA Section 311/312 Hazards:

Benzoyl peroxide (94-36-0): Reactive, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Benzoyl peroxide (94-36-0): De minimis limit = 1.0 %, Reportable threshold = Standard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information

This mixture includes quartz (silica) which is firmly bound in the pasty component, and therefore not freely available during use, so that a risk of dust inhalation is excluded, thus the product does not cause a harm effect. Silica is listed in the Proposition 65 list.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 2
Physical Hazard: 1
Personal Protection: X

NFPA Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 1
Unique Hazard: -



Revision date: 19.03.2020 Revision No: 1,07

Flammability for HMIS and NFPA ratings not applicable.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IARC: International Agency for Research on Cancer IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observed Effect Concentration

NTP: National Toxicology Program

OECD: Oragnisation for Economic Co-operation and Development



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OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Values

TSCA: Toxic Substances Control Act

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



Printing date 05/18/2015 Version number 3 Reviewed on 05/18/2015

1 Identification

· Product identifier

· Trade name: Hilti HIT-HY 200-R

· Container size: 330 ml, 500 ml

- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use Building and construction work
- · Application of the substance / the mixture Adhesive anchoring system for rebar and anchor fastenings in concrete.
- · Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Hilti, Inc.

5400 South 122nd East Ave. US-Tulsa, OK 74146 Phone: (800) 879-8000 Fax: (800) 879-7000 Español: (800) 879-5000

· Information department:

anchor.hse@hilti.com

see section 16

· Emergency telephone number:

Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

2 Hazard(s) identification

· Classification of the substance or mixture

Aquatic Acute 1 H400 Very toxic to aquatic life. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- $\cdot \textbf{GHS label elements} \ \text{The product is classified and labeled according to the Globally Harmonized System (GHS)}.$
- $\cdot \ Hazard \ pictograms$





GHS07

GHS09

- · Signal word Warning
- · Hazard-determining components of labeling:

Hydroxypropyl methacrylate

dibenzoyl peroxide

· Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 If on skin: Wash with plenty of water.

· Classification system

· NFPA ratings (scale 0-4)



(Contd. on page 2)

(Contd. of page 1)



Safety Data Sheet acc. to ISO 11014

Printing date 05/18/2015 Version number 3 Reviewed on 05/18/2015

Trade name: Hilti HIT-HY 200-R

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Additional information:



[→] Hilti HIT

· Information pertaining to particular dangers for man and environment: A

H317 May cause an allergic skin reaction.

· Information pertaining to particular dangers for man and environment: B

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

2-Component-Foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoylperoxide, phlegmatized

Mixture of the substances listed below with nonhazardous additions.

· Dangerous components: .

· Dangerous	· Dangerous components A:			
27813-02-1	Hydroxypropyl methacrylate	5-10%		
2082-81-7	tetramethylene dimethacrylate	10-15%		
14808-60-7	Quartz (SiO2)	40-50%		
1344-28-1	aluminium oxide	5-10%		

· Dangerous components B:				
94-3	66-0 dibenzoyl peroxide	10-15%		
14808-6	60-7 Quartz (SiO2)	40-50%		
1344-2	8-1 aluminium oxide	15-25%		

4 First-aid measures

- · Description of first aid measures
- General information Immediately remove any clothing soiled by the product.
- · After inhalation Take affected persons into fresh air and keep quiet.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

Protect unharmed eye.

· After swallowing

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

- · Information for doctor
- · Most important symptoms and effects, both acute and delayed Allergic reactions
- $\cdot \ \, \textbf{Indication of any immediate medical attention and special treatment needed} \\$

No further relevant information available.

US EN

(Contd. on page 3)



Printing date 05/18/2015 Version number 3 Reviewed on 05/18/2015

Trade name: Hilti HIT-HY 200-R

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Sand

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbondioxide (CO2)

Nitrogen oxides (NOx)

In certain fire conditions, traces of other toxic gases cannot be excluded.

- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

 \cdot Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

- Environmental precautions: Do not allow to penetrate the ground/soil.
- · Methods and material for containment and cleaning up:

Pick up mechanically.

Clean the affected area carefully; suitable cleaners are:

organic solvent

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling

Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!

The usual precautionary measures for handling chemicals should be followed.

Information about protection against explosions and fires:

No special measures required.

Keep ignition sources away - Do not smoke.

- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Keep in a cool, dry and dark place; 41 °F / 5 °C to 77 °F / 25 °C.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- $\cdot \ \textbf{Further information about storage conditions:} \ Protect \ from \ heat \ and \ direct \ sunlight.$
- · Storage class

As per VCI (1991) storage classification concept.

11

· Specific end use(s) Adhesive mortar for anchor and rebar fastenings

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- \cdot Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant for this product.

(Contd. on page 4)



Printing date 05/18/2015 Version number 3 Reviewed on 05/18/2015

Trade name: Hilti HIT-HY 200-R

(Contd. of page 3)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves.

Only use chemical-protective gloves with CE-labeling of category III.

EN 374

Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.12 mm

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Not suitable are gloves made of the following materials:

Natural rubber, NR

Leather gloves

Strong gloves

· Eye protection:



Tightly sealed goggles.

EN 166 / EN 170

· Body protection:



Protective work clothing.

9 Physical and chemical properties

 Information on b 	basic physical and	l chemical properties
--------------------------------------	--------------------	-----------------------

· General Information

· Appearance:

Form: Pasty

Color: Component A: grey

Component B: white

• Odor: Ester-like• Odour threshold: Not determined

• **pH-value:** Componente A: not applicable

Componente B: ~ 7

· Change in condition

Melting point/Melting range: Not determined. Boiling point/Boiling range: undetermined

• Flash point: Component A: > 109 °C (DIN EN ISO 1523)

Component B: not applicable

· Flammability (solid, gaseous) Not determined

(Contd. on page 5)



Printing date 05/18/2015 Version number 3 Reviewed on 05/18/2015

Trade name: Hilti HIT-HY 200-R

		(Contd. of page 4)
· Ignition temperature:	355 °C (671 °F)	
· Decomposition temperature:	Component A: not relevant Component B: SADT 65 °C UN test H4	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined Not determined	
· Vapor pressure at 20 °C (68 °F):	< 0.1 hPa (< 0 mm Hg)	
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1.8 g/cm ³ (15.021 lbs/gal) (DIN 51757) Not determined Not determined Not determined	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/water	er): Not determined	
· Viscosity: dynamic at 20 °C (68 °F): kinematic at 20 °C (68 °F):	50 Pa.s (DIN 53019) > 20 s (ISO 2431)	
· Solvent separation test	Not determined	
· Solvent content: Organic solvents: Water: Other information	None Component B: ~ 20% VOC Content: 7 g/l (EPA Method 24)	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Carcinogenic categories

· NTP (National Toxicology Program)	
14808-60-7 Quartz (SiO2)	K

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Trade name: Hilti HIT-HY 200-R

(Contd. of page 5)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- \cdot Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:

None

- · General notes: The product does not contain organically bounded halogens (AOX-free).
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

· European waste catalogue:				
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances			
20 01 27*	paint, inks, adhesives and resins containing dangerous substances			

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADN		
Class	Void	
ADR, IMDG, IATA		
Class	Void	
Label	Void	
Packing group		
DOT, ADR, IMDG, IATA	Void	
Environmental hazards:		
Marine pollutant:	No	
Special marking (ADR):	None	
Special marking (IATA):	None	
Special precautions for user	Not applicable.	
Danger code (Kemler):	Void	
EMS Number:	Void	
Segregation groups	Void	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications. available oxygen content < 1 %	

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Trade name: Hilti HIT-HY 200-R

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· UN "Model Regulation":

• **HS-Code:** 3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking

compounds and other mastics

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

94-36-0 Dibenzoyl peroxide

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

14808-60-7	Quartz (SiO2)	A2
1344-28-1	aluminium oxide	A4
94-36-0	Dibenzoyl peroxide	A4

· MAK (German Maximum Workplace Concentration)

14808-60-7	Quartz (SiO2)	1
1344-28-1	aluminium oxide	2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)

· National regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- · Information about limitation of use: Employment restrictions concerning young persons must be observed.
- · Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R7 May cause fire.

R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

· Department issuing SDS:

(Contd. on page 8)

US EN



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Trade name: Hilti HIT-HY 200-R

(Contd. of page 7)

Hilti Entwicklungsgesellschaft mbH

Hiltistrasse 6 D-86916 Kaufering Tel.: +49 8191 906310 Fax: +49 8191 90176310 e-mail: anchor.hse@hilti.com

· Contact: Mechthild Krauter

 \cdot Date of preparation / last revision 05/18/2015 / 2

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous

Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1 $\,$

 \cdot * Data compared to the previous version altered.

US EN



1. Identification

Product Identification

Product Identifier: SET

Recommended Use: SET Epoxy Adhesive is a high-strength, anchoring adhesive.

Use Restrictions:To ensure proper installation use according to package directions. Complete application

instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Company Inc. **Address:** 5956 W. Las Positas Blvd.

Pleasanton, CA 94588

Phone: 1-800-999-5099
Website: www.strongtie.com

Emergency: 1-800-535-5053 (US/Canada)

1-352-323-3500 (International)

For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

SET Epoxy Adhesive is a high-strength, non-shrink, epoxy adhesive for anchoring doweling threaded rod and rebar. It is a two-part (1:1) system packaged as a single unit in a dual cartridge. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). Exposure to the individual components will only occur with improper use. The resin and hardener are dispensed and mixed simultaneously through the mixing nozzle. The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. The final cured product will be uniformly light gray in color and can be considered nonhazardous. Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

Resin (White Side) GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards: Not Classified.

Health Hazards: Skin Corrosion/Irritation Category 2 H315: Causes skin irritation

Serious Eye Damage/Irritation

Category 2

Sensitization, Skin

Category 1

Category 1

H319: Causes serious eye irritation

H317: May cause an allergic skin reaction

Category 2

H341: Suspected of causing genetic defects

Carcinogenicity Category 2 H351: Suspected of causing cancer

Environmental Hazards: Chronic Aquatic Hazard Category 2 H411: Toxic to aquatic life with long lasting

effects

Main Symptoms: Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision.

May cause rash/allergic reaction to the skin. Long term exposure may cause chronic effects.

GHS Label Elements



Contains: Resins, Butyl Glycidyl Ether, Titanium Dioxide

Signal Word: WARNING!

Hazard Statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: P102: Keep out of reach of children.



P103:	Read label before use.
F 105.	i veau iapei peiole use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust, mist, or vapors. P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of water.

> P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before re-use.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. P337+P313: P308+P313: If exposed or concerned: Call a poison center/doctor.

P391: Collect spillage.

Storage: P403: Store in a well-ventilated place.

> P405: Store locked up.

P411: Store between 45-90°F (7-32°C).

Disposal: P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hardener (Black Side) GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards: Not Classified.

Acute Toxicity, Dermal **Health Hazards:** Category 4 H312: Harmful in contact with skin Skin Corrosion/Irritation Category 1 H314: Causes severe skin burns Category 1 Serious Eye Damage/Irritation H318: Causes serious eye damage Sensitization, Skin Category 1 H317: May cause an allergic skin reaction Category 2 Carcinogenicity H351: Suspected of causing cancer Category 2 Reproductive Toxicity H361: Suspected of damaging fertility STOT, Repeated Exposure H373: May cause damage to organs through

prolonged or repeated exposure

Environmental Hazards: Acute Aquatic Hazard Category 1 H400: Very toxic to aquatic life

> Chronic Aquatic Hazard H410: Very toxic to aquatic life with long lasting Category 1

> > effects

Main Symptoms: Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred

> vision. May cause rash/allergic reaction to the skin. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. Long term exposure may cause chronic effects.

Category 2

GHS Label Elements



Contains: Ground Limestone, Benzyl Alcohol, 2-piperazin-1-ylethylamine, Bisphenol-A

DANGER! **Signal Word:**

Hazard Statements: H312: Harmful in contact with skin.

> H314: Causes severe skin burns and eve damage.

H318: Causes serious eye damage. May cause an allergic skin reaction. H317: H351: Suspected of causing cancer.



H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs (nasal cavity) through prolonged or repeated

exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: P102: Keep out of reach of children.

P103: Read label before use.

P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition

sources. No smoking.

P260: Do not breathe dust, mist, or vapor. P264: Wash thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER/doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation occurs: Get medical advice/attention. P308+P313: If exposed or concerned: Get medical advice/attention.

P391: Collect Spillage.

Storage: P403: Store in a well-ventilated place.

P405: Store locked up.

P411: Store between 45-90°F (7-32°C).

Disposal: P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured component of SET. Upon combination of the two components, an innocuous solid which does not present any immediate hazards is formed. Upon grinding or cutting the cured product, the following hazards may apply. Ensure good work practice and use of personal protective equipment as needed to control exposure to processing dust.

Health Hazard:CarcinogenicityCategory 1AOSHA Hazard:STOT, Repeated ExposureCategory 1

Combustible Dust

Hazard Statement: May cause cancer.

Can form explosive air-dust mixtures, avoid creating dust.

Precautionary Statement: Do not breathe dust.

Do not allow dust to build up on surfaces.

3. Composition Information

Chronic Health

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

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The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Resin (White Side)

Chemical Name	Weight %	CAS Number	EC Number
Bisphenol-A Based Epoxy Resin	30-50	25068-38-6	500-033-5
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317	7, Aquatic Chroni	c 2: H411	
Phenolic Novolac Resin	40-70	28064-14-4	608-164-0
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H31	7, Aquatic Chroni	c 2: H411	
Butyl Glycidyl Ether	1-5	2426-08-6	219-376-4
Classifications: Flam. Liq. 3: H226, Acute Tox. 4: H302, Acute Tox. 3: H	l311+H331, Skin	Sens. 1: H317, GCM	2: H341, Carc. 2:
H351, STOT SE 3: H335, Aquatic 3: H402+H412			
Titanium Dioxide	1-5	13463-67-7	236-675-5
Classifications: Carc. 2: H351			

Hardener (Black Side)

Chemical Name	Weight %	CAS Number	EC Number
Ground Limestone	20-40	1317-65-3	215-279-6
Classifications: Skin Irrit. 2: H315			
Benzyl Alcohol	1-15	100-51-6	202-859-9
Classifications: Acute Tox. 4: H302+H332, Eye Irrit. 2: H319			
2-Piperazin-1-ylethylamine	1-15	140-31-8	205-411-0
Classifications: Acute Tox. 4: H302+H312, Skin Corr. 1: H314, Skin Se	ns. 1: H317, Aqua	atic 3: H402+H412	
Bisphenol-A	1-10	80-05-7	201-245-8
Classifications: Skin Corr. 1: H314, Eye Corr. 1: H318, Repr. 2: H361, S	STOT SE 3: H335	; ;	
Nonyl Phenol	1-5	84852-15-3	284-325-5
Classifications: Acute Tox. 4: H302, Skin Corr. 1: H314, Repr. 2: H361,	Aquatic 1: H400-	+H410	
Furfuryl Alcohol	1-5	98-00-0	202-626-1
Classifications: Acute Tox. 3: H301+H311+H331, Eye Irrit. 2: H319, Ca	rc. 2: H351, STO	T SE 3: H335, STOT I	RE 2: H373
Benzyldimethylamine	1-5	103-83-3	203-149-1
Classifications: Flam. Liq. 3: H226, Acute Tox. 4: H302+H312+H332, S	kin Corr. 1: H314	, Aquatic 3: H402+H4	12
Triethylenetetramine	< 5	112-24-3	203-950-6
Classifications: Acute Tox. 4: H312, Skin Corr. 1: H314, Skin Sens. 1: H	1317, Aquatic Ch	ronic 3: H412	
p-tert-butylphenol	< 5	98-54-4	202-679-0
Classifications: Skin Irrit. 2: H315, Eye Corr. 1: H318, Repr. 2: H361, S	TOT SE 3: H335,	Aquatic Chronic 2: H	411
Crystalline Silica, Quartz	< 5	14808-60-7	238-878-4
Classifications: Carc. 1A: H350, STOT RE 1: H372			
Carbon Black	< 1	1333-86-4	215-609-9
Classifications: Carc. 2: H351			

First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

		วดรเ	

Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes **Eye Contact:**

open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or

swelling persists, consult a physician immediately.

Remove contaminated clothing and product; immediately wash affected area with soap and water. **Skin Contact:**

Do not apply greases or ointments. Chemical burns must be treated by a **physician**.

Rinse mouth immediately. Give large amounts of milk or water if the person is conscious. Only induce vomiting at the instruction of medical personnel. Consult a physician immediately.

Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to

experience difficulty breathing, consult a physician.

Most Important Symptoms

Ingestion:

Inhalation:



Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. Permanent eye damage, including blindness, can result. Rash/dermatitis. May cause severe irritation or burns to the gastrointestinal tract and respiratory system.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder, or water fog.

Additional Information: None known.

Hazards during Fire-Fighting: Hazardous decomposition products may occur when materials polymerize at temperatures above

500°F (260°C). Irritating and toxic gases/fumes may be released during a fire. Water run-off can cause environmental damage. Do not allow run-off from fire-fighting to enter drains or water

courses.

Fire-Fighting Procedures: Use standard fire-fighting procedures and consider the hazards of other involved materials. In case

of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers by flooding quantities of water until well after fire is out. Prevent runoff from fire control

or dilution from entering streams, sewers, or drinking water supply.

. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured): Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for

proper disposal. Clean surface thoroughly to remove residual contamination. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. Do NOT use solvents to clean adhesives from skin. Take appropriate precautions when handling

flammable solvents. Solvents may damage surfaces to which they are applied.

Large spills (uncured): Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a

non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof

containers. Seal tightly for proper disposal. Following product recovery, flush area with water.

Cured Material: Chip or grind off surface. The product contains components that are carcinogenic in respirable

form. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust. Take precautionary

measures; do not allow dust to build up.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not inhaled dust, mist, or vapor. Use only in well-ventilated places. Avoid contact with eyes, skin, and clothing. Pregnant women should not work with this product if there is risk of exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Full Unused Cartridges: Store away from incompatible materials (See Section 10 of the SDS). Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight between 45-90°F (7-32°C). Keep away from heat and sources of ignition. Protect container from physical damage. Keep out of reach of children.

Partially Used Cartridges: To store partially used cartridge, temporarily replace cap or leave hardened nozzle in place. To re-use, attach new nozzle. Do not try to dispense after adhesive hardens in nozzle. CAUTION: Adhesive will start to gel in the nozzle. Adhesive will gel



faster at higher temperatures. Material under pressure can blowout the back of the cartridge if the adhesive in the nozzle hardens. Use only an appropriate Simpson Strong-Tie® mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair adhesive performance. Keep out of reach of children.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure: Wear appropriate personal protective equipment.

Eye Protection: Wear chemical splash goggles or safety glasses with side shield. **Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

Skin and Body Protection: Wear long sleeve shirt/long pants and other clothing as required to minimize contact.

Respirator Protection: The use of a respirator is not required during normal use of this product. If grinding or cutting cured

product, the use of an approved respirator is recommended.

General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended, ventilation rates should be matched to conditions to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Triethylenetetramine* (CAS 112-24-3)	N/E	N/E	6 mg/m ³ 1 ppm
Quartz (CAS 14808-60-7)	$\frac{10}{\% SiO_2 + 2} mg/m^3$	0.025 mg/m³ (respirable)	0.05 mg/m³ (respirable)
Limestone (CAS 1317-65-3)	5 mg/m³ (Respirable) 15 mg/m³ (Total dust)	N/E	5 mg/m³ (respirable) 10 mg/m³ (total dust)
Benzyl Alcohol (CAS 100-51-6)	5 mg/m³ (TWA)	N/E	5 mg/m³ (STEL) 10 ppm
Furfuryl alcohol* (CAS 98-00-0)	200 mg/m ³	40 mg/m³ (TWA) 60 mg/m³ (STEL)	40 mg/m³ (TWA) 60 mg/m³ (STEL)
Butyl Glycidyl Ether (CAS 2426-08-6)	270 mg/m³ 50 ppm	3 ppm	30 mg/m³ (ceiling) 5.6 ppm (ceiling)
Titanium Dioxide (CAS 13463-67-7)	5 mg/m³ (respirable) 15 mg/m³ (total dust)	10 mg/m ³	N/E
Carbon Black (CAS 1333-86-4)	3.5 mg/m ³	3 mg/m³	0.1 mg/m ³

^{*}Skin Designation: Material can be absorbed through the skin.

9. Physical and Chemical Properties

Property Resin Hardener **Physical State:** Liquid, Paste Liquid, Paste Color: White Black Odor: Sweet Ammonia :Ha 6.9 10.6 Flammability limit - lower %: No data No data Flammability limit – upper %: No data No data Vapor Pressure: Non-volatile No data Vapor Density: No data No data

Solubility: Insoluble in water Slightly soluble in water

Freezing/Melting Point:

No data

Boiling Point:

No data

> 500 °F (>260 °C)

No data

Flash Point: 250 °F (121 °C) Open Cup 198 °F (92.2 °C) Open Cup

Evaporation Rate: No data No data



Decomposition Temperature: No data No data

Specific Gravity: 1.21 at 72°F (22°C) 1.23 at 72°F (22°C)

 VOC (after cure):
 6 g/L
 6 g/L

 Kow:
 No data
 No data

 Viscosity:
 No data
 No data

10. Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal conditions.

Chemical Stability: Stable under normal storage conditions.

Condition to Avoid: High heat and open flame.

Substances to Avoid: Resin: Oxidizing agents, acids, organic bases and amines. Hardener: Strong oxidizing agents and

strong acids.

Hazardous Reactions: Hazardous polymerization does not occur.

Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion: Corrosive material; causes severe irritation or burns to the gastrointestinal tract and respiratory

tract.

Inhalation: If this material is heated or misted, coughing and mild, irritation may occur. Do not inhale dust from

cutting/grinding cured product.

Skin contact: Causes severe skin burns. May cause an allergic skin reaction. Harmful in contact with skin.

Eye contact: Causes serious eye damage.

Symptoms: Burns, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. Severe irritation or

burns to the gastrointestinal tract and respiratory system. Shortness of breath, discomfort in chest,

or coughing.

Information on Toxicological Effects

Acute Effects

Toxicity: Harmful in contact with skin.

Product		Species	Test Result
SET Resin Mixture			
	Acute, Oral, LD50	Rat	> 5000 mg/kg
	Acute, Dermal, LD50	Rabbit	> 2000 mg/kg
SET Hardener Mixture			
	Acute, Oral, LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation:Causes skin irritation and severe skin burns. **Eye damage/eye irritation:**Causes serious eye irritation and damage.

Respiratory sensitization: No data available.

Skin sensitization: May cause an allergic skin reaction.

Aspiration hazard: No data available.

Specific target organ toxicity

Single exposure: No data available.

Chronic Effects

Germ cell mutagenicity: SET Resin contains a component that is suspected of causing genetic defects.

Carcinogenicity: This product contains components that are suspected of being carcinogenic. The product also

contains components which are considered carcinogens only in their respirable form. Due to the nature of this product, exposure to respirable particles is likely only when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control

exposure.
SET Hardener contains components which are suspected of damaging fertility or the unborn child.

Reproductive toxicity:

Specific target organ toxicity

Repeated exposure: May cause damage to organs (nasal cavity) through prolonged or repeated exposure.



Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Quartz (CAS 14808-60-7)	< 1	1	KNOWN	A2	CA65
Titanium Dioxide (CAS 13463-67-7)	1-5	2B			CA65
Carbon Black (CAS 1333-86-4)	< 1	2B			CA65
Bisphenol-A (CAS 80-05-7)	1-10				CA65
Nonyl Phenol (CAS 84852-15-3)	1-5				Limited evidence of reproductive toxicity (NOAEL >2000 ppm)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic

NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen

ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected

CA65 – California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. SET Resin is classified as toxic to aquatic life with long lasting effects. SET Hardener is classified as very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Component	Species	Test Result
SET Resin Mixture		
Aquatic Acute, Fish, LC50	Fish	707.11 mg/l, 96 hours
Aquatic Acute, Crustacea, EC50	Daphnia magna	324.87 mg/l, 48 hours
Aquatic Acute, Algae, EC50	Algae	>1000 mg/l, 72 hours

Component	Estimate
SET Hardener Mixture Estimate	
Aquatic, Fish, LC50	500-600 mg/l, 96 hours
Aquatic, Crustacea, EC50	20-40 mg/l, 48 hours
Aquatic, Algae, EC50	> 850 mg/l, 72 hours

Persistence and degradability: This product is not expected to be readily biodegradable.

Bioaccumulative potential:No data available for this product. **Mobility in soil:**This product is non-volatile.

Further Information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Consideration

Waste Disposal of Substance: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance

with local/regional/national regulations.

Container Disposal: Empty containers or liners may retain some product residues; follow label warnings even after

container is emptied. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

SET Epoxy Adhesive SAFETY DATA SHEET



	Resin (White Side)	Hardener (Black Side)		
UN number:	UN3082	UN2735		
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A- Epichlorohydrin), 9, III, Marine Pollutant	AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethylpiperazine, Nonylphenol), 8, III, Marine Pollutant		
Precautions:	Marine Pollutant	Marine Pollutant		
Required Labels:	9	8		
ERG Code (IATA):	9L	8L		
EmS (IMDG):	F-A, S-F	F-A, S-B		
Special Precautions for Users:	Read safety instructions, SDS and emergency procedures before handling.			

Based on packaging size, Limited Quantity exemptions may apply. Please consult the 49 CFR HMR, IATA DGR, and IMDG Code to ensure that shipments comply with these regulations.

15. Regulatory Information

United States

Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):

Nonyl Phenol (CAS 84852-15-3) LISTED

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed. CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard Categories:					
	Immediate	Delayed	Fire	Pressure	Reactivity
Resin	Yes	Yes	No	No	No
Hardener	Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: No SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting):

Chemical	CAS Number	% In Blend (approx.)
Nonyl Phenol	84852-15-3	1-5
Bisphenol A	80-05-7	1-10

California Proposition 65:

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

Carcinogen / Reproductive Toxin / Mutagen Information							
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other		
Quartz (CAS 14808-60-7)	< 1	1	KNOWN	A2	CA65 (Carcinogenic)		
Titanium Dioxide (CAS 13463-67-7)	1-5	2B			CA65 (Carcinogenic)		
Carbon Black (CAS 1333-86-4)	< 1	2B			CA65 (Carcinogenic)		
Bisphenol-A (CAS 80-05-7)	1-10				CA65 (Reproductive)		

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic

NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen

ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected

CA65 – California Prop 65

SET Epoxy Adhesive SAFETY DATA SHEET



Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

Australia	One or more components of this product are not included on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL).
China	One or more components of this product are not included on the Inventory of Existing Chemical Substances in China (IECSC).
Europe	One or more components of this product are not included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are not exempt from listing.
Japan	One or more components of this product are not included on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL).
New Zealand	All components of this product are listed on the New Zealand Inventory.
Philippines	All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: October 2019 **Supersedes:** August 2016

Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS No.: Chemical Abstract Service Registry Number

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)

HPR: Hazardous Product Regulations (Canada)
DOT: Department of Transportation (U.S.)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association
 IMDG: International Maritime Dangerous Goods code

NIOSH: National Institute of Occupational Safety and Health (U.S.)

NFPA: National Fire Protection Association (US)
NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)

STOT: Specific Target Organ Toxicity (GHS Classification)

SET Epoxy Adhesive

SAFETY DATA SHEET

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act (U.S.)

TWA: Time Weighted Average (exposure for 8-hour workday)

VOC: Volatile Organic Compounds

WHMIS: Canadian Workplace Hazardous Materials Information System

Full Text of H – Phrases Under Section 3
H226: Flammable liquid and vapor.

H301: Toxic if swallowed.H302: Harmful if swallowed.H311: Toxic in contact with skin.

H331: Toxic if inhaled.
H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H350: May cause cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

H402: Harmful to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Company Inc. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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Internal

FOR INTERNAL USE ONLY

SET Resin: SET Hardener:

XCOM3B – 50% Cartridge XCOM3A – 50% Cartridge

XCORR - 50% Cartridge



SpecPoxy 3000 Part A

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecPoxy 3000 Part A

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Epoxy bonding gel

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108

Business Phone: (816) 968-5600

Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Current Revision: April 30, 2015
Date of Last Revision: February 26, 2007

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white gelled liquid with a characteristic odor.

Health Hazards: May cause skin and eye irritation. Contact with skin may cause allergic reaction.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated,

however release may cause long term adverse environmental effects.

US DOT Symbols: Not Regulated

(!)(±)

EU and GHS Symbols:

Signal Word: Warning

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC: Index Number:

500-033-5 is listed in Annex I 603-074-00-8

215-279-6 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Bisphenol A Diglycidyl Ether Resin, Calcium

Carbonate

2.2 Label Elements:

GHS Hazard Classifications: Skin Irritation Category 2
Skin Sensitization Category 1



SpecPoxy 3000 Part A

Response Statements:

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Eye Irritant Category 2

Chronic Aquatic Toxicity Category 2

Hazard Statements: H315 Causes skin irritation

H317 May cause an allergic skin reaction H319 Causes serious eye irritation H411 Toxic to aquatic life with long lasting

effects

Precautionary Statements: P280 Wear protective gloves/eye

protection/face protection.

P264 Wash thoroughly after handling.

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P272 Contaminated clothing should not be

allowed out of the workplace.

P273 Avoid release to the environment. P302+P352 IF ON SKIN: Wash with plenty of

vater

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical

advice/attention.

P337+P311 If eye irritation persists: Get

medical advice/attention.

P362+P364 Take off contaminated clothing and

wash it before reuse. P391 Collect spillage.

Storage Statements: P405 Store locked up.

Disposal Statements: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness.

Skin Contact: May be irritating to skin. Contact with skin may cause allergic reaction.

Eye Contact: May cause irritation to the eyes.

Ingestion: May be harmful if swallowed. May cause nausea or diarrhea.

Chronic: Not known.

Target Organs:

Acute: Skin, Eyes
Chronic: Not known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS



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Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Calcium Carbonate			215-279-6	Skin Irrit. 3, Eye Irrit. 2B
Bisphenol A Diglycidyl Ether Resin	40-45%	25068-38-6	500-033-5	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Aquatic Chronic 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to the eyes may cause irritation.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class



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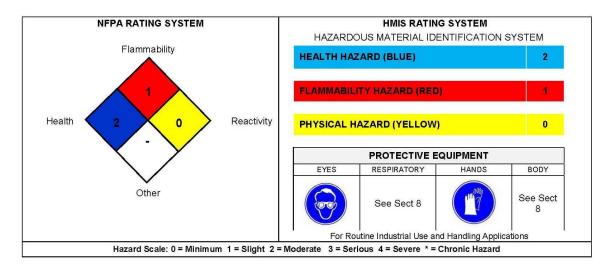
5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing
- Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:



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Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Epoxy.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Bisphenol A Diglycidyl Ether Resin	25068-38-6	Not Listed	Not Listed
Calcium Carbonate	1317-65-3	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	Not ListedTWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection



SpecPoxy 3000 Part A

Hand Protection:

Body Protection:

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> authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards. Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

states.

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Chemical resistant gloves are required to

prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards. Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): White gelled liquid

Odor: Characteristic Odor

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: 300°F (149.89°C) Flash Point: 200°F (93°C)

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): 11 mm Hg 100° F

Vapor Density: Heavier than air Relative Density: No data available

Specific Gravity: >1.2

Solubility in Water: Not miscible



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Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Heat, open flame or other sources of ignition.

10.5 Incompatible Substances: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide and other decomposition

products can occur during combustion if not use according to specifications.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Bisphenol A Diglycidyl Ether Resin	25068-38-6	LD50 Oral – Rat	13,600 mg/kg
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Suspected Cancer Agent: Ingredients within this product are not found on one or more of

the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be cancer-

causing agents by these agencies.

Irritancy: Skin, eye irritant.

Sensitization to the Product: This product is not expected to cause skin sensitization. **Germ Cell Mutagenicity:** This product does not contain ingredients that are suspected

to be a germ cell mutagenic.

Reproductive Toxicity: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Bisphenol A Diglycidyl	25068-38-6	LC50 – Rainbow Trout	<10 mg/l – 96h
Ether Resin	25006-36-0	EC50 – Algae	<10 mg/l – 96h

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.



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SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number: Not Regulated

Proper Shipping Name:
Hazard Class Number and Description:
None
Packing Group:
None
DOT Label(s) Required:
None

North American Emergency Response

Guidebook Number: None

14.2 Environmental Hazards:

Marine Pollutant:

The components of this product are designated by the

Department of Transportation to be Marine Pollutants

This product is considered as dangerous goods.

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Laboratification Names

UN Identification Number: Not regulated

Proper Shipping Name:
Hazard Class Number and Description:
None
Packing Group:
None
EMS-No:
None

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.



SpecPoxy 3000 Part A

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U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not Applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class D2A, Very Toxic Material, per WHMIS Controlled Product Regulations.



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)



SpecPoxy 3000 Part A

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Date of Printing: April 30, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



SpecPoxy 3000 Part B

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecPoxy 3000 Part B

> Synonyms: N/A CAS No: Mixture

1.2 Product Use: Epoxy bonding gel

1.3 Company Name: **SpecChem**

> Company Address: 1511 Baltimore Ave; Suite 600 Company Address Cont: Kansas City, MO 64108

Business Phone: (816) 968-5600

Website: www.specchemllc.com 1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

> Date of Current Revision: October 4, 2017 Date of Last Revision: April 30, 2015

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a gray gelled liquid with a characteristic odor.

Health Hazards: May cause skin, eye and respiratory system irritation. Inhalation may cause drowsiness or dizziness. Contact with skin may cause allergic reaction.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

EU and GHS Symbols:

Signal Word: Danger



2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC: Index Number:

203-865-4 is listed in Annex I 612-058-00-X

205-411-0 is listed in Annex I 612-105-00-4

203-867-5 is listed in Annex I 603-194-00-0

202-679-0 is listed in Annex I 304-090-00-8

284-325-5 is listed in Annex I 601-053-00-8



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202-013-9 is listed in Annex I 603-069-00-0

275-162-0 is not listed in Annex I 215-279-6 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: All Ingredients

2.2 Label Elements:

Response Statements:

GHS Hazard Classifications: Skin Sensitization Category 1

Skin Corrosive Category 1B
Acute Toxicity Category 4 (Oral)
Acute Toxicity Category 4 (Dermal)
Reproductive Toxicity Category 1B
Chronic Aquatic Toxicity Category 2

Hazard Statements: H314 Causes severe skin burns and eye

damage

H317 May cause an allergic skin reaction

H302 Harmful if swallowed H312 Harmful in contact with skin

H361 Suspected of damaging fertility or the

unborn child

H411 Very toxic to aquatic life with long lasting

effects

Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions

have been read and understood. P260 Do not breathe dusts or mists.

P272 Contaminated work clothing should not be

allowed out of the workplace. P280 Wear protective gloves/eye protection/face protection.

P264 Wash thoroughly after handling.

P261 Avoid breathing

dust/fume/gas/mist/vapours/sprav.

H270 Do not eat, drink or smoke when using

this product.

P273 Avoid release to the environment. P301+P330+P331 IF SWALLOWED: Rinse

mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of

water.

P321 Specific treatment (see supplemental first

aid instructions on this label).



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P332+P313 If skin irritation occurs: Get medical

advice/attention.

P363 Wash contaminated clothing before

reuse

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 Rinse mouth.

P308+P313 IF exposed or concerned: Get

medical advice/attention.

P310 Immediately call a POISON CENTER/doctor if you feel unwell.

P391 Collect spillage.

Storage Statements: P405 Store locked up. **Disposal Statements:** P501 Dispose of conte

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness. Skin Contact: A single prolonged exposure may result in the absorption of harmful amounts. May cause burns or redness. Contact with skin may cause allergic reaction.

Eye Contact: Corrosive material may cause irritation with possible burns and tissue damage.

Ingestion: Harmful if swallowed. May cause nausea and diarrhea. **Chronic:** Repeated exposure may cause skin dryness or cracking.

Target Organs: Acute: Skin, Eyes Chronic: Skin.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Calcium Carbonate	50-60%	1317-65-3	215-279-6	Skin Irrit. 3, Eye Irrit. 2B
4-Nonylphenol	10-15%	84852-15-3	284-325-5	Acute Tox. 4 (oral), Skin Corr, 1B, Reproductive Tox.2, Aquatic Acute1, Aquatic Chron.1
4-tert-butylphenol	10-15%	98-54-4	202-679-0	Skin Irrit. 2, Eye Dam. 1, Repr. 2
2,2'-iminodiethylamine diethylenetriamine	3-5%	111-40-0	203-865-4	Acute Tox. 4 (Oral), Acute Tox. 4 (Dermal), Skin Corr. 1B, Skin Sens. 1
2-piperazin-1-ylethylamine	3-5%	140-31-8	205-411-0	Acute Tox. 4 (Oral), Acute Tox. 4 (Dermal), Skir Corr. 1B, Skin Sens. 1, Aquatic Chronic 3
2-(2-aminoethylamino)ethanol (AEEA)	3-5%	111-41-1	203-867-5	Skin Corr. 1B, Skin Sens. 1, Repr. 1B
Bis[(dimethylamino)methyl]phenol	1-3%	71074-89-0	275-162-0	Skin Corr, 1B
2,4,6-tris(dimethylaminomethyl)phenol	1-3%	90-72-2	202-013-9	Acute Tox. 4(Oral), Skin Irrit.2, Eye Irrit.2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respir sensitizers).



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Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin and eyes may cause burns

or redness.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.



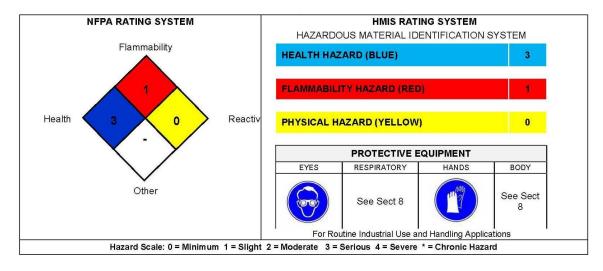
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Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing
- Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.



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- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Epoxy bonding gel.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Calcium Carbonate	1317-65-3	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	TWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)
4-Nonylphenol	84852-15-3	Not Listed	Not Listed
4-tert-butylphenol	98-54-4	Not Listed	Not Listed
2,2'-iminodiethylamine diethylenetriamine	140-31-8	Not Listed	Not Listed
2-(2-aminoethylamino)ethanol (AEEA)	111-41-1	Not Listed	Not Listed
Bis[(dimethylamino)methyl]phenol	71074-89-0	Not Listed	Not Listed
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	Not Listed	Not Listed

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.



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Hand Protection:

Body Protection:

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Respiratory Protection: Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

states.

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to

prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards. Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Gray gelled liquid

Odor: Characteristic

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: 300°F (148.9°C) Flash Point: 200°F (93°C)

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: No data available



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Vapor Pressure (mm Hg @ 20°C (68° F): 11mm Hg 100° F

Vapor Density: No data available Relative Density: No data available

Specific Gravity: 1.2

Solubility in Water: Not miscible **Weight per Gallon:** No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Heat, open flame or other sources of ignition.

10.5 Incompatible Substances: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide and other decomposition

products can occur during combustion if not use according to specifications.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

4-Nonylphenol	84852-15-3	LD50 Oral-Rat	1,412 mg/kg
4-tert-butylphenol	98-54-4	LD50 Oral-Rat	> 2,000 mg/kg
2,2'-iminodiethylamine	111-40-0	LD50 Oral-Rat	0.3 mg/l- 4h
diethylenetriamine	111-40-0	LD50 Dermal-Rabbit	1,090 mg/kg
2 piperazio 1 ylethylemine	140-31-8	LD50 Oral-Rat	2,097 mg/l- 4h
2-piperazin-1-ylethylamine		LD50 Dermal-Rabbit	866 mg/kg

Suspected Cancer Agent: Ingredients within this product are not found on one or more of

the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be cancer-causing

agents by these agencies.

Irritancy: Skin, eye and respiratory irritant.

Sensitization to the Product: This product is not expected to cause skin sensitization. This product does not contain ingredients that are suspected

to be a germ cell mutagenic.

Reproductive Toxicity: This product is expected to be a human reproductive toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:



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4 Nanylphanal	84852-15-3	LC50 – Lepomis macrochirus	0.209 mg/l -96h
4-Nonylphenol	04002-10-3	EC50 – Algae	0.33 mg/l – 72h
4-tert-butylphenol	98-54-4	LC50 – Fathead Minnow	5.14 mg/l - 96h
		EC50 – Water flea	4.8 mg/l – 72h
2,2'-iminodiethylamine diethylenetriamine	111-40-0	LC50 – Guppy	1,014 mg/l- 96h

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number: UN2815

Proper Shipping Name: N-Aminoethylpiperazine

Hazard Class Number and Description: Class 8 – Corrosive substances

Packing Group:

DOT Label(s) Required: Corrosive substances

North American Emergency Response

Guidebook Number: 153

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are designated by the

None

Department of Transportation to be Marine Pollutants

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA): This product is considered as dangerous goods.



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14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: UN2815

Proper Shipping Name: N-Aminoethylpiperazine

Hazard Class Number and Description: Class 8 – Corrosive substances

Packing Group: III F-A-S-B

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not Applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class D2A, Very Toxic Material, per WHMIS Controlled Product Regulations.



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:



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Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



Revision Date: 08/30/2018

SAFETY DATA SHEET

1. Identification

Material name: EUCOBAR - 55 GAL DRUM

Material: 028 55

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD **CLEVELAND OH 44110** US

Contact person: **EH&S** Department Telephone: 216-531-9222

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Not applicable

Hazard(s) not otherwise

classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	
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Stearic acid	57-11-4	0.1 - <1%
Morpholine	110-91-8	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and storage

Precautions for safe handling:

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities:

Store away from incompatible materials. Store in original tightly closed

container.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Morpholine	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
•	PEL	20 ppm 70 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

None of the components have assigned exposure limits.



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Chemical name	Туре	Exposure Limit Va	lues	Source
Stearic acid	TWA	11	0 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWA	1	0 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Morpholine	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Morpholine	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Morpholine	TWA	20 ppm 7	1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Triethanolamine	TWA		5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Triethanolamine	TWA		5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Triethanolamine	TWA	0.5 ppm 3.	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Triethanolamine	TWA	,	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Appropriate Engineering

Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: Pink Odor: Mild

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Revision Date: 08/30/2018

Odor threshold: No data available.

pH: 7 - 9

Melting point/freezing point:No data available.Initial boiling point and boiling range:No data available.Flash Point:> 121 °C > 250 °FEvaporation rate:Slower than Ether

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1

Solubility(ies)

Solubility in water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: Strong acids. Strong bases.

Hazardous Decomposition Thermal decomposition or combustion may liberate carbon oxides and

Products: other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.



Revision Date: 08/30/2018

Skin Contact: Causes mild skin irritation.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Stearic acid LD 50 (Rat): > 2,000 mg/kg

Morpholine LD 50 (Rat): 1,900 mg/kg

Dermal

Product: ATEmix: 296,559.91 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Stearic acid in vivo (Rabbit): Not irritant Experimental result, Key study

Morpholine in vivo (Rabbit): Corrosive Experimental result, Key study

Serious Eye Damage/Eye Irritation



Revision Date: 08/30/2018

Product: No data available.

Specified substance(s):

Stearic acid Rabbit, 27 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.



Revision Date: 08/30/2018

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Morpholine LC 50 (Bluegill (Lepomis macrochirus), 96 h): 350 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Morpholine LC 50 (Water flea (Daphnia magna), 24 h): 100 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Stearic acid Log Kow: 8.23



Revision Date: 08/30/2018

Morpholine Log Kow: -0.86

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

Morpholine 100 lbs. Morpholine, 4-methyl- 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified Not classified



Revision Date: 08/30/2018

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Morpholine 100 lbs.

Xanthylium

Morpholine, 4-methyl- 100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Stearic acid 10000 lbs
Morpholine 10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

10/12



Revision Date: 08/30/2018

VOC:

Regulatory VOC (less water and : 88 g/l

exempt solvent)

VOC Method 310 : 0.19 %

Inventory Status:

Australia AICS: One or more components in this product are

not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.



Revision Date: 08/30/2018

16.Other information, including date of preparation or last revision

Revision Date: 08/30/2018

Version #: 4.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: EVAPRE_™ Part Number: 3061000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 5/24/2019
Product Use: Surface Retarder

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

Avoid direct contact.

SECTION 3: HAZARDS COMPONENTS

% by SARA Vapor Pressure LEL

<u>Chemical Name</u>: <u>CAS Number</u> <u>Weight</u> <u>313</u> <u>(mm Hg@20°C)</u> <u>(@25°C)</u>

1. None

| Personal Protection |

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water. Remove contaminated shoes/clothing. If symptoms persist, seek medical attention.

INHALATION: Not expected to be an exposure route as supplied. If respiratory symptoms develop, seek medical attention.

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: No flash point due to high water content

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal. Clean-up materials will be classified as non-hazardous waste.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. **SAFE STORAGE:** Do not allow product to freeze.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

<u>Chemical Name: PEL PEL/CEILING PEL/STEL SKIN TWA TLV/CEILING TLV/STEL SKIN</u>

1. None

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

Date of Preparation: 5/24/19 Page 2 of 2 3061000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

MELTING/FREEZING POINT: N/D

BOILING POINT: 212 °F VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/E EVAPORATION RATE: <1 (Ether=1) pH LEVEL: N/A % VOLATILE BY WEIGHT: 98 WEIGHT PER GALLON: 8.33 PRODUCT APPEARANCE: Green Liquid VOC CONTENT: 15 g/L

FLASH POINT: See Section 5 FLAMMABILITY: N/D UEL/LEL: N/D
VAPOR PRESSURE: N/D RELATIVE DENSITY: N/D SOLUBILITY: N/D

ODOR THRESHOLD: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/A: Not Applicable N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation.

SKIN CONTACT: Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation.

INHALATION: Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized.

ODOR: None

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None recognized

SECTION 13: WASTE DISPOSAL INFORMATION WASTE DISPOSAL INFORMATION: Non-hazardous waste if disposed.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized.

BULK TRANSPORTATION INFORMATION: None.

SPECIAL PRECAUTIONS: None recognized.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 5/24/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: DECK-O-FOAM Part Number: 4610000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: (847) 214 2160

Product Use: Expansion Joint for Concrete

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

| HMIS | 0 | Product is classified as non-hazardous per OSHA 1910.1200. Deck-O-Foam is | Flammability | 0 | defined by OSHA as an "article." A manufactured item that is formed to a specific | Reactivity | 0 | shape or design during manufacture that does not release or result in exposure to

 Personal Protection
 | a hazardous chemical under normal use conditions.

SECTION 3: HAZARDS COMPONENTS

% by SARA Vapor Pressure LEL
CAS Number Weight 313 (mm Hg@20°C) (@24°C)

1. None

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water to remove particles.

SKIN CONTACT: Flush with water to remove particles. Wash affected areas with soap and water if available.

INHALATION: Not expected to be an exposure route. **INGESTION:** Not expected to be an exposure source.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Not applicable.

EXTINGUISHING MEDIA: Water fog, foam, dry chemical. **CHEMICAL/COMBUSTION HAZARDS:** None recognized.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Not applicable. Product is a solid.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: No special requirements

SAFE STORAGE: None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

<u>Chemical Name:</u> <u>PEL PEL/CEILING PEL/STEL SKIN TLV TLV/CEILING TLV/STEL SKIN</u>

1. None

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: None required under normal conditions of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/A EVAPORATION RATE: N/A ph level: N/A % VOLATILE BY WEIGHT: N/A

WEIGHT PER GALLON: N/A PRODUCT APPEARANCE: Solid Material VOC CONTENT: N/A

ODOR: None ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

 FLASH POINT:
 See Section 5
 FLAMMABILITY:
 N/D
 UEL/LEL:
 N/D

 VAPOR PRESSURE:
 N/D
 RELATIVE DENSITY:
 N/D
 SOLUBILITY:
 N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/A: Not Applicable N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized. HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

Date of Preparation: 4/11/19 Page 2 of 2 4610000

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: No adverse effects with normal product use. **SKIN CONTACT:** No adverse effects with normal product use. **INHALATION:** Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include

redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized. **BULK TRANSPORTATION INFORMATION:** None.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 4/11/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Fiber Expansion Joint Filler Part Number: 3150-121 Product: W. R. Meadows_® of Canada Manufacturer: Address: 70 Hannant Court

Milton, Ontario Canada L9T 5C1

(905) 878-4122 Telephone: In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 8/25/2020

Product Use: Expansion Joint in Concrete Construction

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS

l Health l FIBER EXPANSION JOINT FILLER is classified as an article and is not WHMIS regulated. |1| |Flammability| An article is a manufactured item that is formed to a specific shape or design during |1| manufacture that does not release or result in exposure to a hazardous material |Reactivity| 101

|Personal Protection| under normal use conditions.

		SECTION 3: HAZARDS COMPONENTS					
		% by	SARA	Vapor Pressure	LEL		
Chemical Name:	CAS Number	Weight	<u>313</u>	(mm Hg@20°C)	<u>(@24°C)</u>		
1. Petroleum Asphalt	8052-42-4	35-40	No	N/A	N/A		
2. Wood Fiber	N/A	60-70	No	N/A	N/A		
					N/A = Not Applicable		

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA)

and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water to remove fibers.

SKIN CONTACT: Flush with water to remove fibers. Wash affected areas with soap and water if available.

INHALATION: Not expected to be an exposure route. If a dust exposure occurs, remove victim from exposure source and treat

symptomatically.

INGESTION: Not expected to be an exposure source.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Not applicable; product is a solid.

EXTINGUISHING MEDIA: Water fog, foam, dry chemical.

CHEMICAL/COMBUSTION HAZARDS: Stacked material will retain heat and has the potential to re-ignite.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Not applicable. Product is a solid.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.

SAFE STORAGE: None

SECTION 8.	EXPOSURE CON	TROIS/PERSONA	I PROTECTION

l		OSHA					ACC	SIH	
l	Chemical Name:	<u>PEL</u>	PEL/CEILING	PEL/STEL	<u>SKIN</u>	<u>TLV</u>	TLV/CEILING	TLV/STEL	SKIN
l	1. Petroleum Asphalt	5 mg/m ³ *	N/E	N/E	No	0.5 mg/m ³ *	N/E	N/E	N/E
ı	2. Wood Fiber	5 mg/m ³ ***	N/E	N/E	No	5 mg/m ³ **	N/E	10 mg/m ³ **	N/E

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

N/E = Not Established * : Asphalt Fumes **: Wood Dust, Soft Woods ***: Wood Dust, Soft and Hard Woods

Date of Preparation: 8/25/20 Page 2 of 2 3150-121

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/A EVAPORATION RATE: N/A ph Level: N/A % VOLATILE BY WEIGHT: N/A

WEIGHT PER GALLON: N/A PRODUCT APPEARANCE: Black Board VOC CONTENT: N/A

FLASH POINT: See Section 5FLAMMABILITY: N/DUEL/LEL: N/DVAPOR PRESSURE: N/DRELATIVE DENSITY: N/DSOLUBILITY: N/D

ODOR THRESHOLD: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/A = Not Applicable N/D = Not Determined

SECTION 10: STABILITY/REACTIVITY

MELTING/FREEZING POINT: N/D

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized.

HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation. **SKIN CONTACT:** Direct contact may cause slight skin irritation. **INHALATION:** Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: Wood dust is listed by the IARC as a human carcinogen (Group 1).

SECTION 12: ECOLOGICAL INFORMATION

FCOTOXICITY: N/E

DEGRADABILITY: N/E

BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E

OTHER ADVERSE EFFECTS: None Recognized

N/E = Not Established

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ODOR: None

ENVIRONMENTAL HAZARDS: None recognized. **BULK TRANSPORTATION INFORMATION:** None.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 8/25/2020 PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Issue Date: May 19, 2015

Page 1 of 4

Section 1 – Identification

Telephone:

Product Identification: Medium Density Fiber Board (Cellulose Based)

Product Name: 440 Homasote, 440 Sound Barrier (S/B) PINacle440, ComfortBase, 4-Way

Floor Deck, Easy-Ply Roof Deck, Homex 300

Recommended Use: Building Material Manufacturer: Homasote Company

P.O. Box 7240

West Trenton, NJ, 08628-0240 609-883-3300. Fax: 609-883-3497

Emergency Phone: Toll Free: 800-257-9491 Ext. 1500

Section 2 – Hazards Identification

The primary health hazard posed by this product is exposure to cellulose dust. See section 8.

Primary route of exposure (dust): Inhalation and/or eye contact.

Medical Conditions generally aggravated by exposure: Cellulose dust may aggravate existing respiratory conditions or allergies.

Target Organs: Eyes and respiratory system

Signs or symptoms of exposure: Irritation or redness

Acute Health Hazard: Not applicable for product in purchased form. Dust may be a mechanical

irritant to the eyes.

Cellulose dust may pose a combustible dust explosion hazard if dust is sufficient concentration in an enclosed area and in proximity to an ignition source. As supplied and shipped, this product does not constitute a combustible dust explosive hazard.

Section 3 – Composition/Information on Ingredients

Component	CAS	Weight %
Paper Cellulose	65996-61-4	94-98
Wax (paraffin)	8002-74-2	1-6
Copper Metaborate	39290-85-2	<0.1

Section 4 – First Aid Measures

Ingestion: Not applicable for product in purchased form.

Eye Contact: Dust may mechanically irritate the eyes, resulting in redness or watering. Treat dust in the eye as a foreign object. Flush with water to remove dust particles. Get medical help if irritation persists.

Skin Contact: No anticipated problem for product as purchased. Wash with water and mild soap.

Skin Absorption: Product is not absorbed through the skin

Inhalation: Excessive dust concentrations may cause dryness or unpleasant obstruction in the nasal passages. Remove to fresh air. Get medical help if persistent irritation, severe coughing, or breathing difficulty occurs.

HMIS Rating (0-4): Health = 0 Fire = 1 Physical Hazard = 0



Issue Date: May 19, 2015

Page 2 of 4

Section 5 – Fire Fighting Measures

Flash Point: Not available for finished product

Extinguishing Media: Water, carbon dioxide (CO2), dry chemical, or foam as appropriate for

surrounding fire.

Autoignition Temperature: 450 to 572 °F

Unusual Fire and Explosion Hazards: Fiberboard processing may result in the release of cellulose fibers. This product as shipped is unlikely to release sufficient dust to constitute a combustible dust explosive hazard. Depending on airborne concentration (greater than 40 grams/cubic meter), moisture content, particle diameter, surface area, and exposure to an ignition source, airborne cellulose dust may ignite.

Special Protective Equipment: As in any fire, wear NIOSH approved self contained breathing apparatus and appropriate protective clothing.

NFPA Rating (0-4): Health = 0 Fire = 1 Reactivity = 0

Section 6 – Accidental Release Measures

Not applicable for material in purchased form. Small pieces and dust should be swept up for recovery or disposal.

If sweeping up dust, use NIOSH approved filtering facepiece respirator (i.e. dust mask) and goggles where ventilation is not possible.

Section 7 – Handling and Storage

Precautions to be taken in handling and storage: Keep in cool dry place away from open flame and other sources of ignition. Maintain good housekeeping.

Because of the size of the boards, physical hazards are the predominant hazards. Safety shoes should be worn when moving the boards by hand or hand tools. Boards should be kept on flat, clean, and even surfaces to prevent tipping over.

Section 8 – Exposure Controls/Personal Protection

As produced and sold, no control or personal protection equipment for exposure is necessary.

If sawing or sanding, protection from dust is the primary concern.

RESPIRATORY PROTECTION – Use NIOSH approved filtering face piece respirator (dust mask) and goggles when processing this material.

PROTECTIVE GLOVES – Not required. However, cloth, canvas, or leather gloves are recommended to minimize potential scrapes and mechanical irritation from handling this product.

EYE PROTECTION – Approved goggles or tight fitting safety glasses are recommended during any operation that generates dust.

FEET PROTECTION – Steel toed shoes are recommended when handling the boards.

PROTECTIVE CLOTHING – Not needed for this material. Outer garments may be desirable in dusty areas. **WORK / HYGIENE PRACTICES** – Follow good hygienic and housekeeping practices when cutting and sanding this material. Clean up areas where dust may settle to avoid accumulation of this combustible material.

VENTILATION – When processing (e.g. sanding, sawing), provide local exhaust as needed to control dust.



Issue Date: May 19, 2015

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Section 9 – Physical and Chemical Properties

Form: solid board Color: gray Odor: none pH: NA

Melting Point: NA | Boiling Point: NA | Ignition Temperature: 450 °F | Flash Point: NA

Density: 20 to 30 lb/ft³ **Solubility in water:** negligible

Explosion Limit - Lower: 40 grams of dust per cubic meter air for cellulose dust

Section 10 - Stability and Reactivity

Reactivity: None Stability: Stable

Conditions to avoid: Avoid open flame, sparks, and other sources of ignition.

Incompatible Materials: Not Applicable

Hazardous Decomposition or By-Products: Combustion products include carbon monoxide, carbon

dioxide, and fine particulate in the form of smoke.

Hazardous polymerization: Will not occur

Sensitivity to mechanical impact: Not applicable Sensitivity to static discharge: Not applicable

Section 11 – Toxicological Information

Toxicity Data: None available for this product in purchased form.

Section 12 – Ecological Information

Ecotoxicity: Not available

Section 13 – Disposal Considerations

Waste Disposal Method: Dispose in accordance with federal, state, and local regulations. This material is not listed under any sections of the Resource Conservation and Recovery Act.

Section 14 – Transportation Information

Not regulated as a hazardous material by the U.S. Department of Transportation.



Issue Date: May 19, 2015

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Section 15 – Regulatory Information

CERCLA: This product does not contain any chemicals subject to reporting as a CERCLA hazardous substance under 40 CFR 302.4

EPCRA: This product does not contain any chemicals subject to reporting as a toxic chemical under EPCRA Section 313.

Section 16 – Other Information

Date Prepared: 4/30/2015

Revised: 5/19/2015

Website: www.homasote.com

List of Acronyms

ACGIH	American Conferences of Governmental Industrial Hygienists
CAS(RN)	Chemical Abstracts (Registry Number)
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
EPCRA	Emergency Planning and Community Right-to-Know Act
HMIS	Hazardous Materials Identification System
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	OSHA Permissible Exposure Limit
TLV	Threshold Limit Values (Registered Trademark of ACGIH)
TWA	Time Weighted Average

The information contained herein is based on the present state of our knowledge.

The information contained herein characterizes the product with regard to the appropriate safety precautions.

The information contained herein does not represent a guarantee of the properties of the product.

SAFETY DATA SHEET Nomaco, Inc.

Section 1: Identification

Product Identifier:

Product Name.....: NOMAFLEX®, Expansion Joint

Chemical Family.....: Thermoplastic polymer; Polypropylene Plastic

Recommended Use...... NOMAFLEX® Expansion Joint can be used in a wide variety of

applications including outdoor construction, concrete, asphalt

roadways, sealing, gasketing and void fill.

Restrictions of Use None Known

Manufacturer: Nomaco Inc.

501 Innovative Way Zebulon, NC 27597

919-269-6500 / 800-345-7279

Section 2: Hazard Identification

OSHA HAZARD COMMUNICATION STANDARD

This product is considered an article according to 29 CFR 1910.1200. This "Non Hazardous Chemical" is exempt as defined by the OSHA Hazard Communication Standard.

While this product is classified as a "Non Hazardous Chemical" as defined by OSHA Hazard Communication, this Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product.

A flammable hydrocarbon gas is used as a blowing agent in Polypropylene Foam. Trace amounts of this gas may remain in the product at the time of shipment.

POTENTIAL HEALTH EFFECTS:

Eye: Dust may cause irritation or eye injury due to mechanical action.

Skin: Non-irritating to skin. Skin absorption is unlikely.

Inhalation: Dust may cause irritation to the nose, throat and lungs. Concentrations of the isobutane agent incidental to proper handling of the product are expected to be well below the ACGIH recommended exposure limit of 800 ppm.

Ingestion: None determined.

Systemic Effects (Other target organs): None determined. OSHA: Medical Conditions: Not regulated. Aggravated by Exposure: None determined.

Section 3: Composition / Information on Ingredients

INGREDIENT NAME	CAS NUMBER	PERCENT CONCENTRATION
Polypropylene	9003-07-0	85-100%
Other Proprietary Additives	N/A	0 – 15%

The specific chemical identity and exact percentage concentration of the composition has been withheld as a trade secret.

Section 4: First-Aid Measures

Eye: Flush eyes with clean, lukewarm water (low pressure) occasionally lifting eyelids.

Ingestion: If swallowed, consult physician.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Oxygen may be given by qualified personnel if breathing is difficult. Seek medical attention.

Section 5: Fire-Fighting Measures

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers, Carbon dioxide fire extinguishers. Foam.

Fire Fighting Procedures: Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

Special Firefighting Procedures: Full emergency equipment with pressure demand self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, irritating and heavy toxic gases may be generated by thermal decomposition or combustion.

Unusual Fire and Explosion Hazards: Mechanical cutting, grinding, or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. Dense smoke is emitted when burned without sufficient oxygen.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated.

Section 6: Accidental Release Measures

Spill or Leak Procedures: No special precautions are necessary. This product is a non-hazardous waste when spilled or disposed of, as defined in Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261).

Section 7: Handling and Storage

Precautions for Safe Handling:

This product is combustible and should not be exposed to sparks or open flames. Large quantities of this product can burn rapidly and release toxic gases, including carbon monoxide.

Fabrication methods involving cutting of large quantities of this product may release isobutane remaining in the foam cell structure. Provide adequate ventilation to ensure that isobutane concentrations remain below the ACGIH threshold limit value (TLV) of 800 ppm and the Lower Flammable Limit of 1.8% in air by volume to protect workers and eliminate the possibility of

developing flammable or hazardous concentrations.

Conditions for Safe Storage:

Store in a cool, dry location. Keep away from high temperatures and hot pipes. Store away from direct sunlight. This material is combustible and should not be exposed to flame or other ignition sources.

Flammable vapors of isobutane may be generated during unventilated storage of large amounts of this product (for example, in storage trailers). To prevent the build-up of flammable vapors, do not store large quantities of this product in unventilated spaces including trailers. Ventilated trailers are recommended for transportation of bulk shipments of this product.

To prevent potential fire or explosion, do not weld or apply intense heat to closed containers which contain this product. Open closed containers in a well-ventilated area away from sparks or open flames.

Incompatibilities:

This product is incompatible with strong oxidizing agents (for example: Hydrogen Peroxide, Chlorine, Potassium Nitrate, Nitric and Sulfuric Acids).

Section 8: Exposure Controls / Personal Protection

Some of the additives in this product may have exposure guidelines; however these additives are captured in the product and no exposure would be expected under normal handling conditions.

Exposure Limits: Not established for products as a whole.

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne isobutane levels below ACGIH Threshold Limit Value (TLV) of 800PPM. OSHA does not have a PEL for isobutane, which is affirmed as "generally recognized as safe" as a direct human food ingredient according to 21 CFR 184.1165. No toxic effects reported below 18,000 ppm.

INGREDIENT NAME	_CAS NUMBER	EXPOSURE LIMITS Wt. %
Isobutane	75-28-5	800 ppm TWA (ACGIH)

Eye Protection Requirements: Wear tight fitting safety goggles if there is a potential for exposure to flying particles.

Skin Protection Requirements: No special precautions.

Respiratory Protection Requirements: No protection is required if isobutane levels are maintained below the ACGIH TLV of 800 ppm. For exposures above the TLV, take into consideration the type of application, environmental concentrations and materials being used concurrently when selecting a respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Section 9: Physical and Chemical Properties

Physical Form: Flexible solid.

Color: Residual isobutane is colorless.

Odor: No Odor. Residual isobutane has a gasoline-like or natural gas odor. Butane is reported to be detectable by odor at a range of 1262-5048 ppm (AIHA, 1989).

Odor Threshold: Not applicable.

Flash Point: Not applicable.

Method Used: Not applicable.

Flammability Limits: Upper: Not applicable.

Lower: Not applicable

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Boiling Point: Not applicable.

Solubility in water: Insoluble.

Density: 57-69 kg/m3

Section 10: Stability and Reactivity

Reactivity: Non-Reactive

Stability: This is a stable material.

Conditions to Avoid: Avoid sparks, open flame or excessive heat. Avoid contact with oxidizers.

Avoid unvented spaces.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and other toxic gases are generated under

combustion conditions.

Section 11: Toxicological Information

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity: NTP: Not listed.

IARC: Not listed.

Section 12: Ecological Information

This product is inert to the environment and is not expected to exhibit any significant biodegradation.

Section 13: Disposal Considerations

Waste may be reused, recycled or buried in an approved landfill. Follow all regulatory requirements for disposal.

Section 14: Transport Information

DOT Shipping Requirements: Not regulated **IATA Shipping Requirements:** Not regulated

Additional transportation information may be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

CERCLA RQ: None

SARA Title III: Section 302

Extremely Hazardous Substances: None.

Section 311/312 Hazard Categories: Non-hazardous.

Sections 313 Hazard Categories: None.

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether the product should be classified as a hazardous waste (40 CFR 261.20-24).

National Fire Protection Association (NFPA) Ratings: Health 0

Flammability 1 Reactivity 0

Special Hazards None

Canadian Regulations: This product is not a "Controlled Product" under WHMIS.

California Proposition 65: This product may contain small percentages of chemical(s) known to the state of California to cause cancer and/or birth defects. All potential hazardous chemicals with concentrations in the final product greater than 0.1% by weight are listed in Section 3.

Section 16: Other Information

January 29, 2015 (supersedes version dated June 31, 2014)

This product is considered an article according to 29 CFR 1910.1200. This "Non Hazardous Chemical" is exempt as defined by the OSHA Hazard Communication Standard.

While this product is classified as a "Non Hazardous Chemical" as defined by OSHA Hazard Communication, this Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product.

NOTICE: Each customer must determine whether the products discussed and the information contained in this document is appropriate for its use. NO WARRANTIES ARE GIVEN: ALL EXPRESS OR IMPLIED WARRANTIES OF MECHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. It is the Customer's responsibility to ensure that workplace and disposal practices are compliant with any applicable laws. Information provided as a result of testing and analysis by Nomaco is accurate as of the date shown below. Conditions of use and applicable laws may change with time and differ from one location to another, therefore this information is subject to change without notice and Nomaco assumes no liability for use of or reliance upon this document. SDS sheets are intended for occupational use only. This information does not constitute a license under any patent or other proprietary right.



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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

CW Clearcote DUO Product: Part Number: CW Clearcote Duo Citrus Address: 6803 W. 64th St., Ste. 300 Manufacturer: Carter-Waters, LLC

Overland Park, KS 66202

In case of emergency, dial (800) 424-9300 (CHEMTREC) Telephone: (800) 444-2570

9/9/2014 Revision Date:

Product Use: Concrete Form Release Agent

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS **HAZARD STATEMENTS**

|Health| WARNING |1|

Causes skin irritation. |Flammability| |0|

PRECAUTIONARY STATEMENTS |Reactivity| 101

Avoid direct contact. |Personal Protection |

SECTION 3: HAZARDS COMPONENTS

% by Weight

SARA Vapor Pressure LEL

(@25°C) <u>313</u> (mm Hg@20°C)

CAS Number Chemical Name: 1. None

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water. Remove contaminated shoes/clothing. If symptoms persist, seek medical attention.

INHALATION: Not expected to be an exposure route as supplied. If respiratory symptoms develop, seek medical attention.

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: 329 degrees F (Minimum)

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products. PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate personal protective

equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal. Clean-up materials will be classified as non-hazardous waste.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. SAFE STORAGE: Keep containers closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

SKIN TLV/CEILING **Chemical Name:** PEL PEL/CEILING **SKIN** PEL/STEL **TWA** TLV/STEL

1. None

ENGINEERING CONTROLS: None required under normal use conditions. PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/E VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/E **EVAPORATION RATE:** <1 (Ether=1) pH LEVEL: N/A % VOLATILE BY WEIGHT: 100 WEIGHT PER GALLON: 7.25 PRODUCT APPEARANCE: Amber Liquid VOC CONTENT: 82 g/L

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

Date of Preparation: 9/9/14 Page 2 of 2 CW Clearcote Duo Citrus

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation.

SKIN CONTACT: Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation.

INHALATION: Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include ruynny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to

this product.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Waste oil recycler or fuel recycling.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized.
BULK TRANSPORTATION INFORMATION: None.
SPECIAL PRECAUTIONS: None recognized.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 9/9/2014 PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: DUOGARD. II Part Number: 3930000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 5/21/2019

Product Use: Concrete Form Release Agent

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS

| Health | 1 | Product is classified as non-hazardous per OSHA 1910.1200

|Flammability| |0| |Reactivity| |0| |Personal Protection| | |

SECTION 3: HAZARDS COMPONENTS

% by SARA Vapor Pressure LEL
Chemical Name: <u>CAS Number</u> <u>Weight</u> <u>313</u> (mm Hg@20°C) (@25°C)

None

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water. Remove contaminated shoes/clothing. If symptoms persist, seek medical attention.

INHALATION: Not expected to be an exposure route as supplied. If respiratory symptoms develop, seek medical attention.

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: No flash point due to high water content

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal. Clean-up materials will be classified as non-hazardous waste.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.
SAFE STORAGE: Do not allow product to freeze.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

<u>Chemical Name: PEL PEL/CEILING PEL/STEL SKIN TWA TLV/CEILING TLV/STEL SKIN</u>

None

ENGINEERING CONTROLS: None required under normal use conditions. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, chemical-resistant gloves.

Date of Preparation: 5/21/19 Page 2 of 2 3930000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 °F VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/E EVAPORATION RATE: <1 (Ether=1) pH LEVEL: 8.50 % VOLATILE BY WEIGHT: 90 WEIGHT PER GALLON: 8.20 PRODUCT APPEARANCE: Opaque Liquid VOC CONTENT: 38 g/L

ODOR: None ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

 FLASH POINT:
 See Section 5
 FLAMMABILITY:
 N/D
 UEL/LEL:
 N/D

 VAPOR PRESSURE:
 N/D
 RELATIVE DENSITY:
 N/D
 SOLUBILITY:
 N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D

N/A = Not Applicable N/E = Not Established N/D = Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild irritation.

SKIN CONTACT: Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation.

INHALATION: Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Waste oil recycler or fuel recycling.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized.
BULK TRANSPORTATION INFORMATION: None
SPECIAL PRECAUTIONS: None recognized.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 5/21/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained frmom the use thereof. We assume no responsibility for injury from the use of this product described herein.



Revision Date: 05/04/2017

SAFETY DATA SHEET

1. Identification

Material name: FORMSHIELD PURE

Material: THFSD55

Recommended use and restriction on use

Recommended use: Coatings
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - dust and Category 4

mist)

Carcinogenicity Category 1B
Aspiration Hazard Category 1

Unknown toxicity - Health

Acute toxicity, oral 2.91 %
Acute toxicity, dermal 2.91 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 2.91 %

or mist

Label Elements

Hazard Symbol:



Signal Word: Danger



Revision Date: 05/04/2017

Hazard Statement: Harmful if inhaled.

May cause cancer.

May be fatal if swallowed and enters airways.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal

protective equipment as required.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF SWALLOWED: Immediately call a POISON CENTER/doctor/... Do NOT induce vomiting. Call a POISON

CENTRE/doctor/ if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	50 - <100%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never

give liquid to an unconscious person. If vomiting occurs, keep head low so

that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if

symptoms occur.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.



Revision Date: 05/04/2017

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.



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7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)

Chemical name	Туре	Exposure Limit Values	Source
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists,

mechanical generation of dusts, drying of solids, etc.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.



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Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Amber
Odor: Mild

Odor threshold:No data available.pH:No data available.Melting point/freezing point:No data available.

Initial boiling point and boiling range: 310 - 360 °C 590 - 680 °F

Flash Point: > 93 °C > 200 °F
Evaporation rate: Slower than Ether

Flammability (solid, gas): No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 0.87

Solubility(ies)

Solubility in water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: < 20.5 mm2/s (40 °C 104 °F)

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: Strong acids. Strong bases.

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Hazardous Decomposition Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: May be harmful in contact with skin.

Eye contact: Eye contact is possible and should be avoided.

May be ingested by accident. Ingestion may cause irritation and malaise. Ingestion:

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

LD 50 (Rat): > 5,000 mg/kg

Specified substance(s):

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-

based

Dermal

Product: ATEmix: 2,060 mg/kg

Inhalation

Product: ATEmix: 2.25 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

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Specified substance(s):

Lubricating oils (petroleum), C15-30, hydrotreated neutral oilin vivo (Rabbit): Category 2 Experimental result, Key study

Serious Eye Damage/Eye Irritation

based

Product: No data available.

Specified substance(s):

Lubricating oils (petroleum), C15-30, hydrotreated neutral oilbased

Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.



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Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.



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Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.



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SARA 311/312 Hazardous Chemical

Chemical Identity

Threshold Planning Quantity

Lubricating oils 10000 lbs (petroleum), C15-30,

hydrotreated neutral oil-

based

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable

Kyoto protocol

not applicable

VOC:

Regulatory VOC (less water and

: 0 g/l

exempt solvent)

VOC Method 310 : 0.00 %

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Inventory Status:

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: All components in this product are listed on or

exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals: All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

Mexico INSQ:

One or more components in this product are

not listed on or exempt from the Inventory.

Ontario Inventory:

One or more components in this product are

not listed on or exempt from the Inventory.

Taiwan Chemical Substance Inventory: One or more components in this product are

not listed on or exempt from the Inventory.



Revision Date: 05/04/2017

16.Other information, including date of preparation or last revision

Revision Date: 05/04/2017

Version #: 5.0

Further Information: No data available.

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.

Gasoline (All Grades)



Section 1. Identification

: Gasoline (All Grades) **Product name**

Product code : Not available.

: Gasoline, Unleaded Gasoline, Regular Gasoline, Premium Gasoline, Oxyfuel, **Synonyms**

Reformulated Gasoline

Relevant identified uses of the substance or mixture and uses advised against

Product use : Use in fuel - Industrial use Area of application : Industrial applications.

: HollyFrontier Refining & Marketing LLC Manufacturer

2828 North Harwood

Suite 1300

Dallas, Texas 75201

USA

Customer Service: (888) 286-8836

Emergency telephone

: CHEMTREC® (800) 424-9300 CCN 201319

number

Section 2. Hazards identification

OSH	Λ	 tatuc	

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

FLAMMABLE LIQUIDS - Category 1 : H224 H315 SKIN IRRITATION - Category 2 H319 EYE IRRITATION - Category 2A

H340 GERM CELL MUTAGENICITY - Category 1

CARCINOGENICITY - Category 1B H350

TOXIC TO REPRODUCTION (Fertility) - Category 2 H361 TOXIC TO REPRODUCTION (Unborn child) - Category 2 H361 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) H336

(Narcotic effects) - Category 3

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

(liver) - Category 2

H304 ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 9% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 4%

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H224 - Extremely flammable liquid and vapor.

H319 - Causes serious eve irritation. H315 - Causes skin irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H361 - Suspected of damaging fertility or the unborn child. H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure. (liver)

Precautionary statements

Gasoline (All Grades) HollyFrontier Refining & Marketing LLC

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Disposal

: Store in a well-ventilated place. Keep cool.

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Other names	%	CAS number
Gasoline	-	88 - 100	86290-81-5
ethanol	-	0 - 10	64-17-5
toluene	-	0 - 10	108-88-3
1,2,4-trimethylbenzene	-	0 - 5	95-63-6
benzene	-	0 - 5	71-43-2
n-hexane	-	0 - 3	110-54-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Continue to rinse for at least 15 minutes.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Gasoline (All Grades) HollyFrontier Refining & Marketing LLC

Ingestion

: Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact: Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Over-exposure signs/symptoms

Eye contact : pain or irritation; watering; redness

Inhalation : respiratory tract irritation; coughing; nausea or vomiting; headache; drowsiness/

fatigue; dizziness/vertigo; unconsciousness

Skin contact : irritation; redness; dryness; cracking

Ingestion: nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents.

Specific treatments

: No specific treatment.

Protection of medical

responders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Extremely flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date of revision :11/08/2017 Date of previous issue :03/18/2014 Version :2 3/13

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, waterways, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discolored and extremely painful.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Gasoline	ACGIH TLV (United States, 3/2017). TWA: 300 ppm 8 hours. TWA: 890 mg/m³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1480 mg/m³ 15 minutes.	
ethanol	ACGIH TLV (United States, 3/2017). STEL: 1000 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.	
toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 375 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours.	
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2017). TWA: 25 ppm 8 hours. TWA: 123 mg/m³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.	
benzene	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 0.5 ppm 8 hours. TWA: 1.6 mg/m³ 8 hours. STEL: 2.5 ppm 15 minutes. STEL: 8 mg/m³ 15 minutes. OSHA PEL Z2 (United States, 2/2013). TWA: 10 ppm 8 hours. CEIL: 25 ppm AMP: 50 ppm 10 minutes. NIOSH REL (United States, 10/2016). TWA: 0.1 ppm 10 hours. STEL: 1 ppm 15 minutes. OSHA PEL (United States, 6/2016). TWA: 1 ppm 8 hours. STEL: 5 ppm 15 minutes.	
n-hexane	NIOSH REL (United States, 10/2016). TWA: 50 ppm 10 hours. TWA: 180 mg/m³ 10 hours. ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 50 ppm 8 hours. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.	

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Gasoline (All Grades) HollyFrontier Refining & Marketing LLC

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Clear to Amber

Odor : Gasoline
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.

Boiling point : 26.667 to 226.67°C (80 to 440°F)

Flash point : -40°C (-40°F)
Evaporation rate : Not available.
Flammability (solid, gas) : Not applicable.
Lower and upper explosive (flammable) limits : Lower: 1.4% Upper: 7.6%

Vapor pressure : 350-760 mm Hg at 37.8°C (100°F)

 Vapor density
 : 3 to 4 [Air = 1]

 Specific gravity
 : 0.75 [15.5°C (60°F)]

Density : Not available.

Solubility : Negligible

Partition coefficient: noctanol/water : Not available.

Auto-ignition temperature

Decomposition temperature

: >260°C (>500°F) : Not available.

Viscosity : Kinematic (40°C (104°F)): 0.0064 cm²/s (0.64 cSt)

Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Gasoline	LC50 Inhalation Vapor	Rat	>5.2 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethanol	LC50 Inhalation Dusts and mists	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-

Sensitization

3	Route of exposure	Species	Result
Gasoline	skin	Guinea pig	Not sensitizing

Carcinogenicity

Product/ingredient name	OSHA	IARC	NTP
toluene benzene	- +	3	- Known to be a human carcinogen.
30.120.10		•	The state of the s

Specific target organ toxicity (single exposure)

Name	•	Route of exposure	Target organs
Gasoline ethanol	0 ,	Not applicable.	Narcotic effects Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethanol	Category 2	Not determined	liver

Aspiration hazard

Name	Result
Gasoline	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: May cause genetic defects.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : reduced fetal weight; skeletal malformations

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

	,
Route	ATE value
	9768.4 mg/kg
Inhalation (vapors)	795.6 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
toluene	301C Ready Biodegradability - Modified MITI Test (I)	100 % - 14 days	-	-
benzene	301C Ready Biodegradability - Modified MITI Test (I)	100 % - 14 days	-	-

G	Gasoline (All Grades)	HollyFrontier Refining & Marketing LLC

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Gasoline ethanol	2 to 7	10 to 2500	high
	-0.35	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Toluene; Benzene, methyl-	108-88-3	Listed	U220
Benzene (I,T)	71-43-2	Listed	U019

Section 14. Transport information

•			
	DOT Classification	IMDG	IATA
UN number	UN1203	UN1203	UN1203
UN proper shipping name	Gasoline	GASOLINE	Gasoline
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Gasoline (All Grades) HollyFrontier Refining & Marketing LLC

DOT Classification

Reportable quantity 400 lbs / 181.6 kg [63.965 gal / 242.13 L]. Package sizes shipped

in quantities less than the product reportable quantity are not subject to the RQ

(reportable quantity) transportation requirements.

Limited quantity Yes.

Packaging instruction Exceptions: 150. Non-bulk: 202. Bulk: 242. **Quantity limitation** Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.

Special provisions 144, 177, B1, B33, IB2, T4

IMDG : Emergency schedules F-E, S-E

Special provisions 243

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger

Aircraft: 1 L. Packaging instructions: Y341.

Special provisions A100

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

> Clean Water Act (CWA) 307: toluene; benzene Clean Water Act (CWA) 311: toluene; benzene

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**

: Listed

: Listed

DEA List II Chemicals (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 1

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

GERM CELL MUTAGENICITY - Category 1

CARCINOGENICITY - Category 1B

TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 2

ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name	%	Classification
Gasoline	0 - 10	FLAMMABLE LIQUIDS - Category 1 SKIN IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2

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Gasoline (All Grades) HollyFrontier Refining & Marketing LLC SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 2 HNOC - Defatting irritant toluene 0 - 10FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system) (inhalation) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene 0 - 5 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant benzene 0 - 5FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (haematopoietic system) (oral) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (haematopoietic system) (inhalation) - Category 1 ASPIRATION HAZARD - Category 1 0 - 3 n-hexane FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) -Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	toluene 1,2,4-trimethylbenzene benzene n-hexane	108-88-3 95-63-6 71-43-2 110-54-3	0 - 10 0 - 5 0 - 5 0 - 3
Supplier notification	toluene 1,2,4-trimethylbenzene benzene n-hexane	108-88-3 95-63-6 71-43-2 110-54-3	0 - 10 0 - 5 0 - 5 0 - 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: TOLUENE; METHYLBENZENE;

PSEUDOCUMENE; BENZENE; HEXANE; N-HEXANE; ETHYL ALCOHOL;

DENATURED ALCOHOL

New York : The following components are listed: Toluene; Benzene; Hexane

New Jersey : The following components are listed: TOLUENE; BENZENE, METHYL-;

PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; BENZENE; n-HEXANE; HEXANE;

ETHYL ALCOHOL; ALCOHOL

Pennsylvania: The following components are listed: GASOLINE; BENZENE, METHYL-;

PSEUDOCUMENE; BENZENE; BENZOL DILUENT; HEXANE; DENATURED

ALCOHOL; ETHANOL

California Prop. 65

MARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Toluene	-	Yes.
Benzene	Yes.	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification		
Flam. Liq. 1, H224	On basis of test data		
Skin Irrit. 2, H315	Calculation method		
Eye Irrit. 2A, H319	Calculation method		
Muta. 1, H340	Calculation method		
Carc. 1B, H350	Expert judgment		
Repr. 2, H361 (Fertility)	Calculation method		
Repr. 2, H361 (Unborn child)	Calculation method		
STOT SE 3, H336	Calculation method		
STOT RE 2, H373 (liver)	Expert judgment		
Asp. Tox. 1, H304	Calculation method		

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revision

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Version : 2

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

UN = United Nations

✓ Indicates information that has changed from previously issued version.

: 11/08/2017

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version



Safety Data Sheet

1. PRODUCT AND COMPANY INFORMATION

Chemical Product Identification / Product Name

Atlas EPS Expanded Polystyrene, ThermalStar® Expanded Polystyrene, Falcon Foam Expanded Polystyrene, Elevation® Expanded Polystyrene Integity® Expanded Polystyrene, Neopor® Expanded Polystyrene

Recommended use and restrictions

Insulation and packaging only, not for direct contact with food.

Manufacturer Information

Atlas EPS, Division of Atlas Roofing Corporation 8240 Byron Center Ave SW Byron Center, Michigan 49315

Telephone: 800-917-9138 (8am – 5pm EST weekdays)

Emergency Telephone

CHEMTREC (24 hours every day): 800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Eye effects: Category 2B

TOST: Single Exposure, category 3 Carcinogenicity: Category 2

Hazard Symbol



Signal Word

Warning

Hazard Statements

Freshly expanded or heated foam may off-gas pentane which can accumulate at hazardous concentrations above the Lower Explosion Limit (LEL) if stored in closed containers or confined areas.

No unusual conditions are expected from this product after it is aged.

Precautionary Statements

To prevent ignition, avoid smoking, keep from open flames and high temperatures. If heated above decomposition temperature or burned, product can emit an irritating dense black smoke and acid gases. Grinding, sawing or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres.

Wear gloves, long sleeved shirt and long pants, as needed, to reduce skin contact or irritation

Appearance and Odor

White, orange, black, green, or gray solid blocks, sheets, panels or forms with slight hydrocarbon odor.

Emergency Overview

<u>Degree of Hazard</u>				
	<u>Health</u>	<u>Fire</u>	Reactivity	Degree of Hazard
(Insignificant)			•	0 – Minimal
NFPA Rating:	1	2*	0	1 – Slight (Minor)
HMIS Rating:	1	2*	0	2 – Moderate
				3 – Serious (High)
				4 – Severe (Extreme)

Potential Health Effects Summary: Inhalation or eye exposure to dust from this product may cause temporary irritation. Skin exposure to the product may cause mechanical irritation, cuts or punctures.

Routes of Entry: Inhalation, skin and eye contact, and ingestion.

Acute Inhalation: Breathing dust may cause temporary mechanical irritation and coughing. Overexposure to extremely high concentrations of pentane can cause narcotic effects. Signs and symptoms of overexposure to pentane include headache, nausea, dizziness, difficulty walking or sleepiness.

Chronic Inhalation: None identified.

Acute Skin Contact: Direct contact with rough cut foam can cause mechanical abrasion to exposed skin.

Chronic Skin Contact: None identified.

Acute Eye Contact: Eye contact may cause mild mechanical irritation, redness, tearing and blurred vision.

Chronic Eye Contact: None identified.

Acute Ingestion: Ingestion of this material is unlikely if used as intended. However, ingestion of this product may produce gastrointestinal irritation and disturbances.

Chronic Ingestion: None identified.

Carcinogenicity:

Styrene monomer

ACGIH: A4 – Not classifiable as a Human Carcinogen

IARC: 2B – Possibly Carcinogenic to Humans (Vol. 60, 1994)

Medical Conditions Aggravated by Exposure: Treat symptomatically. Specific data that address medical conditions that are generally recognized as being aggravated by exposure to this product are not available. However, chronic respiratory or eye conditions may worsen from exposure to these products.

3. COMPOSITION AND INGREDIENT INFORMATION

<u>Common Name</u> Polystyrene Foam	<u>Chemical Name</u> Ethenylbenzene homopolymer	<u>CAS No.</u> 9003-53-6	Wt. % 95-100%
Pentanes* (isomers)	n-pentane Isopentane Cyclopentane	09-66-0 78-78-4 287-92-3	≤ 5%
Styrene (residual)	Vinyl Benzene	100-42-5	0 - 0.1%

^{*}This is a flammable blowing agent that off-gasses from product. Most of the pentane off-gasses prior to shipment. However, residual blowing agent may gradually off-gas from the foam during storage or use.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. If irritation persists, seek medical attention.

Skin: Wash with mild soap and running water. Remove and launder contaminated clothing before

reuse. If irritation develops, seek medical attention.

Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation develops.

Ingestion: Ingestion of this material is unlikely. If it does occur, do not induce vomiting; seek

medical attention.

Fire: Move to fresh air. Administer oxygen and seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point and Method: Not applicable
Upper Flammable Limit (UFL): Not applicable
Lower Flammable Limit (LFL): Not applicable

Auto Ignition: 880° F (ASTM D-1929) for expanded polystyrene

Extinguishing Method: Use water spray, water fog, fire-fighting foam or dry chemical or $C0_2$

extinguishing media.

Unusual Fire and Explosion Hazards: Pentane vapors may be emitted from freshly expanded or processed foam or when product is heated. Hazardous concentrations may accumulate inside a sealed container or within confined space areas. Electrostatic discharge can be a

source of ignition of accumulated pentane vapors exceeding the L.E.L (lower explosion limit) of 1.5% (15,000 ppm). If ignited, there may be a very high rate of flame propagation and/or an associated explosion. Assure proper ventilation of storage or shipping containers to prevent accumulation of hazardous concentrations of off-gassed pentane.

Hazardous Combustion Products: Burning foam emits a dense, black, irritating smoke with acid gases. Primary combustion products are carbon monoxide, carbon dioxide, and styrene. Other undetermined hydrocarbon fraction could be released in small quantities.

6. ACCIDENTAL RELEASE MEASURES

Land Spill: Scoop up material and put into suitable container for recycling or disposal as a non-hazardous waste in an appropriate recycling or disposal facility.

Water Spill: This material will float and disperse with wind and current. Contain the material with brooms, pick up or remove with a vacuum truck.

Air Release: This material will settle out of the air. If concentrated on land, it can then be scooped up for recycling or disposal as a non-hazardous waste.

7. HANDLING AND STORAGE

Storage Temperature: Below 170° F. **Storage Pressure:** Not applicable.

General Storage: Store in a well-ventilated area. Assure storage containers or areas and shipping containers are adequately ventilated. The flammable vapors of pentane (blowing agent) are heavier than air and may accumulate in low places. "No Smoking – No Matches – No Lighters – No Welding" rules should be enforced.

Wear gloves, long sleeved shirt and long pants, as needed, to reduce skin contact or irritation

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Work Practices and Engineering Controls: Avoid unnecessary dust exposures when cutting or abrading by using adequate local exhaust or general ventilation. General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits and to prevent accumulation of hazardous concentrations of off-gassed pentane (see section 5).

Personal Protective Equipment:

Eye: Safety glasses or goggles may be worn to reduce the risk of eye injury or irritation. **Respirators:** Respiratory protection is not normally required. If dusts are generated up to 10 times above occupational exposure limits, use a NIOSH-approved particulate respirator (disposable filtering dust mask type) with an efficiency rating of N95 or higher (e.g. 3M's 8210, Moldex 2300). Wear an air-purifying respirator with charcoal cartridges or a supplied air respirator when exposure to pentane exceeds exposure limits.

Skin: Gloves, long sleeved shirt and long pants may be worn, as needed, to prevent skin contact and irritation.

Other: None.

<u>INGREDIENT</u>	OSHA PEL	ACGIH TLV	NIOSH REL
Expanded Polystyrene PNOC: Inhalable Respirable Total Particulate	- 5 mg/m3 15 mg/m3	10 mg/m3 3mg/m3 -	- - -
Pentanes Pentane	1000 ppm	600 ppm	120 ppm 610 (Ceiling)
Cyclopentane	-	600 ppm	600ppm
Styrene	100 ppm 200 ppm (Ceiling) 600 ppm (5 minute pe	20 ppm 40 ppm (STEL) eak)	50 ppm 100 ppm (STEL)

Additional Information: The products listed in this MSDS do not contain any form of Asbestos.

9. PHYSICAL AND CHEMICAL

Appearance: White, orange, gray, green, or black solid blocks, sheets, panels or forms

Vapor Density (Air=1): Not applicable (Pentane blowing agent – 2.5)

Physical State: Solid **pH:** Not applicable

Vapor Pressure (mm Hg @ 20 o C): 400 mm Hg

Boiling Point: Not applicable

Odor: Slight hydrocarbon odor

Odor threshold: Not determined

Flash Point: 700 F Viscosity: Not applicable

Specific Gravity (Water=1): 1.05 to 1.18 Freezing Point: Not applicable

Solubility in Water: Very slight Melting Point: Not determined

Evaporation rate: NA Relative Density: 0.5-4 pcf

Partition coefficient: N-octanol/water NA Auto-ignition temperature: 750 F

Decomposition temperature: 900 F

10.STABILITY and REACTIVITY

Stability: This is a stable material; avoid sources of ignition.

Reactivity: Refractive with oxidizing agents.

Incompatible Materials and Conditions to Avoid: Organic solvents, esters, amine and aldehydes will dissolve product. High temperature, poor ventilation combined with freshly expanded product may create hazardous, explosive or fire conditions.

Hazardous Decomposition Products: May decompose in a fire. See Section 5 of SDS for combustion products statement.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Possible routes of exposure: See Section 2

Acute Effects: Acute health effects from this product are unlikely when used as intended.

Chronic Effects: Chronic health effects from this product are unlikely when used as intended.

Styrene Monomer

In March 1987, the International Agency for Research on Cancer (IARC) reclassified styrene as possibly carcinogenic to human (Group 2B) due to "inadequate evidence in humans", "limited evidence in animals" and "other relevant data". Previously, styrene was classified as a Group 3 compound (not classified as to carcinogenicity to humans). The IARC working group determined that the weight of data on genetic and related effects, together with the consideration that styrene metabolized in humans and animals to styrene oxide for which there is sufficient evidence of carcinogenicity in experimental animals and has been classified by IARC as probably carcinogenic to humans (Group 2A), was sufficient reason to recommend the change in classification.

12. ECOLOGICAL INFORMATION

This material is not expected to cause harm to animals, plants or fish. Fish or animals may eat product and obstruct their digestive tract. It is not expected to harm ecosystems through its applied use.

13. WASTE DISPOSAL CONSIDERATONS

RCRA Hazard Class: Non-hazardous

Waste Disposal: Incinerate, recycle or dispose in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

14. TRANSPORTATION INFORMATION

US DOT Information: For domestic transportation purposes, this product is not regulated as a hazardous material by the US Department of Transportation (DOT) under Title 49 of the Code of Federal Regulations.

15. REGULATORY INFORMATION

Clean Air Act

This product contains styrene, which is listed as a hazardous air pollutant

SARA Title III Regulations

This product contains pentane and residual styrene monomer, which OSHA defines as a hazardous chemical. This product may be portable under SARA sections 311 and 312, depending on the maximum on-site storage volumes. This product does not contain any substance(s) subject to the reporting requirements (i.e., at or above de minimis quantities) of sections 302 and 304 of Title III of the Superfund Amendments and Reauthorization Act (SARA-40 CFR 355). This product does not contain any substance(s) subject to reporting requirements (i.e., at or above de minimis quantities) of sections 302 and 304 of Title III of the Superfund Amendments and Reauthorization Act (SARA-40 CFR 372).

Toxic Substance Control Act (TSCA)

All ingredients are listed on the TSCA inventory.

California Proposition 65

This material contains detectable amounts of some chemicals known to the State of California to cause cancer. Styrene oxide is listed as known to the State of California to cause cancer. Styrene oxide is a metabolite of styrene monomer.

Component Analysis: State

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS #	CA	MA	MI	MN	NJ	PA
Pentane (Isomers)	109-66-0						
	78-78-4	~	~		~	~	~
	287-92-3						
Styrene	100-42-5	~	>	>	>	>	>

Component Analysis: WHMIS IDL

The following components appear on one or more of the following state hazardous substance lists:

The following compensate	The following components appear on one of more of the following state nazaraous substance lists	
Component	CAS #	Minimum Concentration
Pentane (Isomers)	109-66-0	
	78-78-4	1% English Item 1243; French Item 1348
	287-92-3	
Styrene	100-42-5	0.1% English Item 1473; French Item 1508

16. ADDITIONAL COMMENTS

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

SDS Revised: September 2016

Tel: (816) 471-2570

Safety Data Sheet acc. to OSHA HCS

Printing date 03/17/2016 Reviewed on 03/17/2016

1 Identification

- · Product identifier
- · Trade name: CW100 1107 Grout
- · Article number: 83-67438
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Carter Waters

6803 W. 64th St., Ste. 300

Overland Park, KS 66202

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 1A H350 May cause cancer.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS05

GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Cement, portland, chemicals

Quartz (SiO2)

· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 0Reactivity = 0

(Contd. on page 2)

Printing date 03/17/2016 Reviewed on 03/17/2016

Trade name: CW100 1107 Grout

· HMIS-ratings (scale 0 - 4)

(Contd. of page 1)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous	· Dangerous components:	
14808-60-7	Quartz (SiO2)	50-75%
65997-15-1	Cement, portland, chemicals	25-50%
7778-18-9	calcium sulphate, natural	≤5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

No special measures required.

(Contd. on page 3)

Printing date 03/17/2016 Reviewed on 03/17/2016

Trade name: CW100 1107 Grout

(Contd. of page 2)

- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO2)

- PEL see Quartz listing
- REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³ *as respirable fraction

65997-15-1 Cement, portland, chemicals

PEL Long-term value: 50 mppcf or 15* 5** mg/m³ *total dust **respirable fraction

REL | Long-term value: 10*5** mg/m³ *total dust **respirable fraction

TLV Long-term value: 1* mg/m³ E; *as respirable fraction

7778-18-9 calcium sulphate, natural

PEL Long-term value: 15* 5** mg/m³ *total dust **respirable fraction

REL Long-term value: 10*5** mg/m³ *total dust **respirable fraction

TLV Long-term value: 10* mg/m³ *as inhalable fraction

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 4)

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Trade name: CW100 1107 Grout

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

	Information on basic physical and chemical properties	
· General Information		
· Appearance:		
Form: Color:	Solid	
· Odor:	According to product specification Characteristic	
· Odor: · Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	>999 °C (>1830 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density at 20 °C (68 °F):	2.8386 g/cm³ (23.688 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	

(Contd. on page 5)

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Trade name: CW100 1107 Grout

		(Contd. of page 4
· Solubility in / Miscibility with Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	t ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	
· Volatile Organic Compounds:	Not determined	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye: No irritating effect known.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· Carcinogen	nc categories	
· IARC (Inter	rnational Agency for Research on Cancer)	
14808-60-7	Quartz (SiO2)	1
13463-67-7	titanium dioxide	2B
1309-37-1	diiron trioxide	3
· NTP (Natio	nal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
· OSHA-Ca ((Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 6)

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Trade name: CW100 1107 Grout

(Contd. of page 5)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to Federal, State, and Local regulations.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Regulated
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not Regulated
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated
Packing group OOT, ADR, IMDG, IATA	Not Regulated
· Environmental hazards: · Marine pollutant:	No
Transport in bulk according to Annex II of MARPOL73, and the IBC Code	/78 Not applicable.
Transport/Additional information:	
· ADR · U.S. Domestic Ground Shipments: · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above. Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine

(Contd. on page 7)

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Trade name: CW100 1107 Grout

(Contd. of page 6)

· UN "Model Regulation":

Not Regulated

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

1344-28-1	aluminium oxide $\leq 1\%$
· TSCA (Toxi	c Substances Control Act):
	Quartz (SiO2)
	Cement, portland, chemicals
	calcium sulphate, natural
	aluminium oxide
65997-16-2	Cement, alumina, chemicals
	Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt
13463-67-7	titanium dioxide
1309-37-1	diiron trioxide

- · Proposition 65
- · Chemicals known to the State of California (Prop. 65) to cause cancer:

14808-60-7 Quartz (SiO2)

13463-67-7 titanium dioxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agenc	y)
---------------------------------------	----

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

14808-60-7	Quartz (SiO2)	A2
1344-28-1	aluminium oxide	A4
13463-67-7	titanium dioxide	A4
1309-37-1	diiron trioxide	A4

· MAK (German Maximum Workplace Concentration)

14808-60-7	Quartz (SiO2)	1
1344-28-1	aluminium oxide	2

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(Contd. of page 7)

13463-67-7 titanium dioxide

3A

· NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)

13463-67-7 titanium dioxide

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS05

GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Cement, portland, chemicals

Quartz (SiO2)

· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The provided information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 03/17/2016 / 256
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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Trade name: CW100 1107 Grout

(Contd. of page 8)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 1A: Carcinogenicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

HC

Tel.: (866) 329-8724

Safety Data Sheet acc. to OSHA HCS

Printing date 09/29/2016 Reviewed on 09/29/2016

1 Identification

- · Product identifier
- · Trade name: Sure-Grip® High Performance Grout
- · Article number: 83-67440
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dayton® Superior

4226 Kansas Avenue

Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident

involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 1A H350 May cause cancer.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS05

GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Cement, portland, chemicals

Quartz (SiO2)

· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
14808-60-7	Quartz (SiO2)	50-75%
65997-15-1	Cement, portland, chemicals	25-50%
13397-24-5	Gypsum (Calcium sulfate)	≤ 2.5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Seek medical treatment.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

No special measures required.

· Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 3)

· Control parameters

· Components with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO2)

PEL see Quartz listing

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

*as respirable fraction

65997-15-1 Cement, portland, chemicals

PEL Long-term value: 50 mppcf or 15* 5** mg/m³

*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³ *total dust **respirable fraction

TLV Long-term value: 1* mg/m³ E; *as respirable fraction

13397-24-5 Gypsum (Calcium sulfate)

REL Long-term value: 10* 5** mg/m³

*Total dust; **Respirable fraction

TLV Long-term value: 10* mg/m³

*as inhalable fraction

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

· Breathing equipment: Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

Color: According to product specification

· Odor: Characteristic
· Odor threshold: Not determined.

(Contd. on page 5)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

		(Contd. of page
· pH-value:	Not applicable.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. >999 °C (>1830 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	2.85531 g/cm³ (23.828 lbs/gal) Not determined. Not applicable. Not applicable.	
· Solubility in / Miscibility with Water:	Soluble.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
· Solvent content: Organic solvents:	0.0 %	
Solids content: · Other information	100.0 % No further relevant information available.	
· Volatile Organic Compounds:	Not determined	

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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(Contd. on page 6)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 5)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye:

Strong caustic effect.

Irritating effect.

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic.

· Carcinogenic categories

Careinogenie Caregories	
· IARC (International Agency for Research on Cancer)	
14808-60-7 Quartz (SiO2)	1
50-00-0 formaldehyde	1
· NTP (National Toxicology Program)	
14808-60-7 Quartz (SiO2)	K
50-00-0 formaldehyde	K
· OSHA-Ca (Occupational Safety & Health Administration)	
50-00-0 formaldehyde	

12 Ecological information

- · Toxicity
- $\cdot \textbf{\textit{Aquatic toxicity:}} \ \textit{No further relevant information available}.$
- $\cdot \textit{Persistence and degradability} \ \textit{No further relevant information available}.$
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 7)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 6)

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Regulated
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not Regulated
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated
· Packing group · DOT, ADR, IMDG, IATA	Not Regulated
· Environmental hazards: · Marine pollutant:	No
· Transport in bulk according to Annex II of MARPOL73, and the IBC Code	/78 Not applicable.
· Transport/Additional information:	
 · ADR · U.S. Domestic Ground Shipments: · U.S. Domestic Ground Non-Bulk (119 gal or less per 	Same as listed for Standard Shipments above.
container) Shipments:	Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine
· UN ''Model Regulation'':	Not Regulated

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

50-00-0 formaldehyde

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

(Contd. on page 8)

- US

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

50-00-0 for	rmaldehyde	(Contd. of pa ≤0.0
F		
,	ic Substances Control Act):	
	Quartz (SiO2)	
	Cement, portland, chemicals	
	Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	
	sodium sulphate	
	boric acid	
	Silicic acid, calcium salt	
	sodium hydroxide	
	aluminium hydroxide	
	formaldehyde	
	sodium carbonate	
	water, distilled, conductivity or of similar purity	
Proposition		
	known to the State of California (Prop. 65) to cause cancer:	
	Quartz (SiO2)	
50-00-0	formaldehyde	
	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
	ingredients is listed.	
Canceroae	nity categories	
	ronmental Protection Agency)	
10043-35-3	- · · ·	I (or
	formaldehyde	B1
	shold Limit Value established by ACGIH)	
	Quartz (SiO2)	
	boric acid	
	Silicic acid, calcium salt	
	formaldehyde	
	nan Maximum Workplace Concentration)	
	Quartz (SiO2)	
	formaldehyde	
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
	Quartz (SiQ2)	
14808-60-7	Quarta (Sto2)	

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

(Contd. of page 8)

· Hazard pictograms







GHS07

- Signal word Danger
- · Hazard-determining components of labeling:

Cement, portland, chemicals

Quartz (SiO2)

· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The provided information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 09/29/2016 / 58
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

(Contd. on page 10)

Printing date 09/29/2016 Reviewed on 09/29/2016

Trade name: Sure-Grip® High Performance Grout

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 1A: Carcinogenicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

(Contd. of page 9)

HC

DIVERSIFOAM PRODUCTS

Safety Data Sheet CertiFoam

SECTION 1: Identification

1.1 Product identifier

Product name CertiFoam

Substance name Extruded Polystyrene Foam-XPS

CAS no. 9003-53-6

1.2 Other means of identification

CertiFoam 15, CertiFoam 25, CertiFoam 40, CertiSteath, CretiStud, CertiFoam, Drainage Board and CertiFoam

Tappered

1.4 Supplier's details

Name DiversiFoam Products
Address 9091 County Road 50
Rockford, MN 55373

United States

Telephone 736 477 5854

1.5 Emergency phone number(s)

763 477 5854

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name Extruded Polystyrene Foam-XPS

CAS no. 9003-53-6

Version: 1.0, Date of issue: 2015-07-07, p. 1 of 7

Other names / synonyms Extruded Polystyrene Foam Insulation

Impurities and stabilizing additives None

Hazardous components

1. POLYSTYRENE

Concentration > 90 %

Other names / synonyms Styrene, polymers

CAS no. 9003-53-6

2. 1,1,1,2-Tetrafluoroethane

Concentration < 10 %

Other names / synonyms Ethane, 1,1,1,2-tetrafluoro-; HFC-134a; Tetrafluoroethane,1,1,1,2-

CAS no. 811-97-2

3. ecomate

Concentration < 10 %

Other names / synonyms Methyl Formate

CAS no. 107-31-3

4. HEXABROMOCYCLODODECANE

Concentration < 2 %

Other names / synonyms Cyclododecane, hexabromo, HBCD

CAS no. 25637-99-4

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice No Hazards Expected

If inhaled No Hazards Expected

In case of skin contact No Hazards Expected

In case of eye contact Solid particals or dust produced when when cutting sanding sawing may

cause mechanical injury to the eyes. Use of safety glasses is

recommended. Black smoke generated during cutting may cause eye

irritation. Rinse eyes with water to remove dust or particals

If swallowed No Hazards Expected

Personal protective equipment for first-aid responders

No data available.

4.2 Most important symptoms/effects, acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

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SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Dry Chemical, CO 2, Water Fog, or Foam

5.2 Specific hazards arising from the chemical

Heat form fire will melt foam and produce a dense black smoke consisting mostly of carbon and carbon dioxide. Dense smoke may obstruct vision

5.3 Special protective actions for fire-fighters

Do not enter fire without proper protection such as turn out gear and supplied air respirators

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

None Required

6.2 Environmental precautions

None Required

6.3 Methods and materials for containment and cleaning up

Sweep/Shovel into suitable disposal container

Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

This material is combustible and should not be exposed to flame or other ignition sources. No smoking, open flames or sources of ignition in

handling and storage area. Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Provide adequate ventilation to assure localized concentrations in release areas are maintained below the lower flammable limit.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place. Minimize sources of ignition, such as static build-up, heat, spark or flame. During shipment, storage, installation, and use, this material should not be exposed to flame or other ignition sources.

Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Pentane (CAS: 109-66-0)

PEL (Inhalation): 1000 ppm (Cal/OSHA)

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OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

No data available.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses or goggles are recommended when using this product.

Skin protection

Wear appropriate gloves. Suitable gloves can be recommended by the glove supplier.

Body protection

Impervious protective clothing and gloves recommended to prevent irritation of skin.

Respiratory protection

None Required

Thermal hazards

No data available.

Environmental exposure controls

None Required

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form Solid White

Odor Slight hydrocarbon odor Odor threshold No data available.

pH Not Applicable
Melting point/freezing point NA/400

Initial boiling point and boiling range

Flash point

Evaporation rate

Not Applicable

No data available.

Not Applicable

Flammability (solid, gas) 1

Upper/lower flammability limits Not Applicable Upper/lower explosive limits Not Applicable Vapor pressure Not Applicable Vapor density Not Applicable Relative density 1.05 to 1.18 Solubility(ies) Not Applicable Not Applicable Partition coefficient: n-octanol/water Not Applicable Auto-ignition temperature Not Applicable Decomposition temperature Not Applicable Viscosity Explosive properties Not Applicable Oxidizing properties Not Applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

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No data available.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

May be incompatible with some organic solvents

10.4 Conditions to avoid

Sparks and open flames

10.5 Incompatible materials

organic solvents

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

None

Skin corrosion/irritation

None

Serious eye damage/irritation

None

Respiratory or skin sensitization

None

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

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No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Disposal of contaminated packaging

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

New Jersey Right To Know Components

Common name: PENTANE CAS number: 109-66-0

Pennsylvania Right To Know Components

Chemical name: Pentane CAS number: 109-66-0

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Other information

No data available.

16.1 Further information/disclaimer

No data available.

16.2 Preparation information

No data available.

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SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard Issue Date: 09/04/2015

Extruded Foam Insulation

Print Date: 06/16/2016

THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard Extruded Foam Insulation

Recommended use of the chemical and restrictions on use

Identified uses: Thermal insulation.

COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY 2030 WILLARD H DOW CENTER MIDLAND MI 48674-0000 UNITED STATES

Customer Information Number: 800-258-2436

SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: CHEMTREC +1 800-424-9300

Local Emergency Contact: 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Construction and composite applications

This product is an article.

Component CASRN Concentration

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard

Extruded Foam Insulation

2-Propenenitrile, polymer with ethenylbenzene 9003-54-7 > 60.0 - < 100.0 %

Styrene, polymers 9003-53-6 <= 10.0 %

1,1,1,2-Tetrafluoroethane 811-97-2 >= 5.0 - <= 10.0 %

Note

Extruded polystyrene foam containing a halogenated flame retardant system.

4. FIRST AID MEASURES

Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Wash off with plenty of water.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated. Combustion products may include and are not limited to: Hydrogen halides. Based on combustion toxicity testing, the effects of combustion from this foam are not more acutely toxic than the effects of combustion from common building materials such as wood.

Issue Date: 09/04/2015

Extruded Foam Insulation

Unusual Fire and Explosion Hazards: Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. This product contains a flame retardant to inhibit accidental ignition from small fire sources. This plastic foam product is combustible and should be protected from flames and other high heat sources. For more information, contact Dow. Dense smoke is produced when product burns.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct waterstream. Use fine water spray or foam. Cool surroundings with water to localize fire zone.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet. Do not enter confined spaces unless adequately ventilated. Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. This product is combustible and may constitute a fire hazard if improperly used or installed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: When large quantities of this product are stored or fabricated, blowing agents may be released. Released blowing agents may thermally decompose to form gases which may accelerate corrosion or rust formation of heaters, boilers, gas fired recirculating air furnaces or heaters, or gas water heaters.

Storage stability

Shelf life: Use within 360 Month

Extruded Foam Insulation

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
1,1,1,2-Tetrafluoroethane	US WEEL	TWA	1,000 ppm

Concentrations of the blowing agents anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines.

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Eye protection should not be necessary. For fabrication operations safety glasses (with side shields) are recommended. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin protection

Hand protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Other protection: No precautions other than clean body-covering clothing should be needed.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. When respiratory protection is required for certain operations, including but not limited to saw, router or hot-wire cutting, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Board
Color Blue
Odor None
Odor Threshold Odorless
pH Not applicable

Melting point/range 90 - 130 °C (194 - 266 °F) Estimated.

Freezing point Not applicable

Boiling point (760 mmHg) Not applicable

Flash point closed cup Not applicable

Extruded Foam Insulation

Evaporation Rate (Butyl Acetate Not applicable

= 1)

Flammability (solid, gas)Not expected to form explosive dust-air mixtures.

Lower explosion limitNot applicableUpper explosion limitNot applicableVapor PressureNot applicableRelative Vapor Density (air = 1)Not applicable

Relative Density (water = 1) 0.027 - 0.064 Estimated.

Water solubility Insoluble in water
Partition coefficient: n- No data available

octanol/water

Auto-ignition temperature 354 °C (669 °F) ASTM D1929

Decomposition temperature No test data available

Kinematic Viscosity Not applicable

Explosive properties No **Oxidizing properties** No

Molecular weight No test data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Thermally stable at typical use temperatures.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Avoid temperatures above 300°C (572°F) Exposure to elevated temperatures can cause product to decompose. Avoid direct sunlight.

Incompatible materials: Avoid contact with oxidizing materials. Avoid contact with: Aldehydes. Amines. Esters. Liquid fuels. Organic solvents.

Hazardous decomposition products: Does not normally decompose. Evolution of small amounts of hydrogen halides occur when heated over 250°C (482°F). Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aromatic compounds. Aldehydes. Ethylbenzene. Hydrogen halides. Polymer fragments. Styrene. Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard

Extruded Foam Insulation

Acute toxicity

Acute oral toxicity

Swallowing is unlikely because of the physical state. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

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As product: Single dose oral LD50 has not been determined.

Acute dermal toxicity

Skin absorption is unlikely due to physical properties. As product: The dermal LD50 has not been determined.

Acute inhalation toxicity

Dust may cause irritation to upper respiratory tract (nose and throat). Fumes/vapors released during thermal operations such as hot wire cutting may cause respiratory irritation. Concentrations of the blowing agents anticipated incidental to proper handling are expected to

be well below those which cause acute inhalation effects and below exposure guidelines.

The LC50 has not been determined.,

Skin corrosion/irritation

Essentially nonirritating to skin.

Mechanical injury only.

Serious eve damage/eve irritation

Solid or dust may cause irritation or corneal injury due to mechanical action.

Fumes/vapor released during thermal operations such as hot-wire cutting may cause eye irritation.

Sensitization

Relevant data not available.

For respiratory sensitization:

Relevant data not available.

Specific Target Organ Systemic Toxicity (Single Exposure)

Available data are inadequate to determine single exposure specific target organ toxicity.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects. Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Carcinogenicity

Relevant data not available.

Teratogenicity

Contains a component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency

Reproductive toxicity

Contains a component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency

Mutagenicity

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard

Extruded Foam Insulation

Relevant data not available.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

COMPONENTS INFLUENCING TOXICOLOGY:

2-Propenenitrile, polymer with ethenylbenzene

Acute oral toxicity

LD50, Rat, > 5,000 mg/kg Estimated.

Acute dermal toxicity

The dermal LD50 has not been determined.

For similar material(s): LD50, Rabbit, > 2,000 mg/kg Estimated.

Styrene, polymers

Acute oral toxicity

Single dose oral LD50 has not been determined.

Acute dermal toxicity

The dermal LD50 has not been determined.

1,1,1,2-Tetrafluoroethane

Acute oral toxicity

Single dose oral LD50 has not been determined.

Acute dermal toxicity

The dermal LD50 has not been determined.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

Persistence and degradability

Biodegradability: Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected. 1,1,1,2-tetrafluoroethane (HFC-134a) remains in the foam and diffuses out slowly, most of it degrading in the troposphere to CO2 and HF. 1,1,1,2-Tetrafluoroethane (HFC-134a) has a stratospheric ozone depletion potential (ODP) of zero, relative to CFC 12 (ODP=1).

Bioaccumulative potential

Bioaccumulation: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

Mobility in soil

In the terrestrial environment, material is expected to remain in the soil.

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Extruded Foam Insulation

In the aquatic environment, material is expected to float.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Landfill. Incinerator or other thermal destruction device.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Not regulated for transport

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Issue Date: 09/04/2015

Extruded Foam Insulation

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)

The product meets the definition of an article and is exempt from inventory requirements.

16. OTHER INFORMATION

Revision

Identification Number: 101195574 / A001 / Issue Date: 09/04/2015 / Version: 11.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

	- 3	
	TWA	8-hr TWA
Ī	US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other

Product name: STYROFOAM™ 1.50 X 48 Inch Scoreboard

Extruded Foam Insulation

than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Issue Date: 09/04/2015



SAFE USE INSTRUCTION SHEET

Revision Date 07-Dec-2016 Version 3 Creation Date 05-Mar-1997

0. GENERAL INFORMATION

This Safe Use Instruction Sheet is the document provided by Owens Corning to communicate safe handling and use instructions for manufactured articles neither regulated by OSHA Hazard Communication Standard, 29 CFR 1910.1200 nor by the Canada Hazardous Products Regulation SOR/2015-17 (WHMIS 2015)

1. IDENTIFICATION

Product Name FOAMULAR® Extruded Polystyrene Insulation - Zero Ozone Depletion Formula

Synonyms Buoyancy Billet, Foamular® 150, Foamular® 250, Foamular® 350, Foamular® 400,

Foamular® 404, Foamular® 600, Foamular® 604, Foamular® 1000, Foamular® C-200, Foamular® C-300, Foamular® CodeBord®, Foamular® Cel-Lok®, Foamular® CW15, Foamular® CW25, Foamular® High-R CW Plus, Foamular® LT30, Foamular® LT40, Foamular® 404RB, Foamular® 604RB, Foamular® AgTek, Foamular® PROPINK®, Foamular® DURAPINK®, Foamular® PINKCORE®, Foamular® PINKCORE® TT, Foamular® Half-Inch, Foamular® INSULPINK®, Foamular® THERMAPINK®, Foamular®

DURAPINK® FA, Foamular® DURAPINK® Plus, FOAMULAR EASI, Foamular® INSULPINK® - Z, Foamular® THERMAPINK® 18, Foamular® THERMAPINK® 25, Foamular® THERMAPINK® 40, Foamular® THERMAPINK® 60, Foamular® Extruded Polystyrene, Foamular® Insulating Sheathing, Foamular® INSUL-DRAIN®, Fabrication

Billet, ProPink® Fanfold, Fanfold DWB, TRUFOLD® Fanfold

OCFI00001 **Product Code**

Air and Water Sealing Insulation **Recommended Use**

Manufacturer Address Owens Corning Foam Insulation, LLC

One Owens Corning Parkway

Toledo, Ohio 43659

Company Phone Number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

Emergency Telephone

1-800-GET-PINK or 1-800-438-7465

1-419-248-5330 (after 5 pm ET and weekends)

E-mail address safetydatasheet@owenscorning.com

Company Website http://owenscorning.com/

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status This product is considered an article. 29 CFR 1910.1200(c) definition of an article is as

> follows: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section),

and does not pose a physical hazard or health risk to employees

This product is considered an article per the Canadian Hazardous Products Regulation **WHMIS Regulatory Status**

SOR/2015-17

Manufactured articles which meet the definition of the Canadian Hazardous Products Act (any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product) are not regulated by the Canadian Hazardous Products Regulation SOR/2015-17

GHS - Classification

This product is not classified hazardous according to GHS criteria

3. COMPOSITION/INFORMATION ON INGREDIENTS

There are no hazardous components/ingredients in this product

4. FIRST AID MEASURES

Description of First Aid Measures

Eye contact • Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

• If eye irritation persists: Get medical advice/attention

Skin contact • Wash skin with soap and water

Inhalation • Remove to fresh air

Ingestion • Accidental ingestion of this material is unlikely

• If this does occur watch person for several days to make sure intestinal blockage does not

occur

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- Dry chemical
- Foam
- · Carbon dioxide (CO2)
- Water spray (fog)

Protective equipment and precautions for firefighters

• As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

· Avoid contact with eyes and skin

Methods for cleaning up

- · Use personal protective equipment as required
- · Take up mechanically, placing in appropriate containers for disposal
- · Clean contaminated surface thoroughly
- Avoid creating dust

7. HANDLING AND STORAGE

Storage Conditions

- Store in a manner which will minimize dust generation and accumulation
- Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

• To prevent build-up of flammable vapors, do not store large quantities of this product in

unventilated spaces

Incompatible materials Amines

Esters

Hydrocarbons

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

 Wear safety glasses with side shields (or goggles) Eye/face protection

Skin and body protection Wear protective gloves

· Wear long-sleeved shirt and long pants

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators in accordance with their company's respiratory protection

program, local regulations or 29 CFR 1910.134

General Hygiene Considerations • Wash face, hands and any exposed skin thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Solid Physical State @20°C

Board

Board Pellets Appearance Odor No detectable odor Pink, White, Gray Color Water solubility Insoluble in water

0.021-0.064 (Ref: water=1) Specific Gravity

Softening point 104 °C

10. STABILITY AND REACTIVITY

Stability Stable

Possibility of Hazardous Reactions • None under normal processing

Hazardous Decomposition Products • Carbon dioxide (CO2)

· Carbon monoxide

Styrene

• Small quantities of hydrogen fluoride, hydrogen chloride, fluorine and chlorine could be released

Other undetermined compounds could be released in small quantities

11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations

14. TRANSPORT INFORMATION

This material is not subject to regulation as a hazardous material for shipping

15. REGULATORY INFORMATION

International Inventories This product is classified as an article. Articles are exempted from registration or listing

under chemicals inventories like TSCA (USA), DSL/NDSL (CAN), REACH (EU), ENCS

(JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS)

California Proposition 65 This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

 Creation Date
 05-Mar-1997

 Revision Date
 07-Dec-2016

Revision NoteThis product is classified as an Article according to OSHA 29 CFR 1910.1200 and to the

Canadian Hazardous Products Regulation SOR/2015-17 (WHMIS 2015). therefore is not regulated. This Safe Use Instruction Sheet replaces the former Material Safety Data Sheet

(MSDS) and is not regulated

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safe Use Instruction Sheet



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1. Identification

Product identifier used on the label

MasterSeal SL 1 stn also SL1 STN

Recommended use of the chemical and restriction on use

Recommended use*: for industrial and professional users

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: No data available.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Flam. Liq. 4 Flammable liquids Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

Resp. Sens. 1 Respiratory sensitization Skin Sens. 1 Skin sensitization

Carc. 2 Carcinogenicity
Repr. 2 (unborn child) Reproductive toxicity

STOT RE 1 Specific target organ toxicity — repeated

exposure

^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Label elements

Pictogram:



Signal Word: Danger

Hazard Statement:

H227 Combustible liquid.

H319 Causes serious eve irritation.

H315 Causes skin irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H361 Suspected of damaging the unborn child.

H372 Causes damage to organs (Central nervous system) through prolonged

or repeated exposure.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P260 Do not breathe dust/gas/mist/vapours.
P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P202 Do not handle until all safety precautions have been read and

understood.

P284 [In case of inadequate ventilation] wear respiratory protection.

P270 Do not eat, drink or smoke when using this product.

P264 Wash with plenty of water and soap thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304 + P341 + P311 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest

in a position comfortable for breathing. Call a POISON CENTER or

doctor/physician.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or

doctor/physician.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician. P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder

or water spray for extinction.

Precautionary Statements (Storage):
P405 Store locked up.

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

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P501

Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Labeling of special preparations (GHS):

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
8052-41-3	>= 1.0 - < 3.0%	Stoddard solvent
91-08-7	>= 0.3 - < 1.0%	toluene-2,6-diisocyanate
2530-83-8	>= 0.2 - < 0.3%	trimethoxy(3-(oxiranylmethoxy)propyl)silane
149-57-5	>= 0.0 - < 0.2%	2-ethylhexanoic acid
1317-65-3	>= 0.0 - < 25.0%	Limestone
13463-67-7	>= 0.0 - < 10.0%	Titanium dioxide
14807-96-6	>= 3.0 - < 5.0%	talc

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Eye irritation, skin irritation, allergic symptoms Hazards: Symptoms can appear later.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

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For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of

contaminated material as prescribed. For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

toluene-2,6-diisocyanate

ACGIH TLV TWA value 0.005 ppm; STEL value 0.02 ppm

;

2-ethylhexanoic acid

ACGIH TLV TWA value 5 mg/m3 Inhalable fraction and

vapor;

Limestone OSHA PEL PEL 5 mg/m3 Respirable fraction; PEL 15

mg/m3 Total dust; TWA value 15 mg/m3 Total dust; TWA value 5 mg/m3 Respirable fraction

;

Titanium dioxide OSHA PEL PEL 15 mg/m3 Total dust ; TWA value 10

mg/m3 Total dust;

ACGIH TLV TWA value 10 mg/m3;

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talc

OSHA PEL

TWA value 20 millions of particles per cubic foot of air; TWA value 2.4 millions of particles per cubic foot of air Respirable;

The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 0.1 mg/m3 Respirable; The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 0.3 mg/m3 Total dust; The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 2 mg/m3 Respirable dust; TWA value 0.3 mg/m3 Total dust;

The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 0.1 mg/m3 Respirable; The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 2.4 millions of particles per cubic foot of air Respirable;

The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

TWA value 20 millions of particles per cubic foot of air ;

ACGIH TLV

TWA value 2 mg/m3 Respirable fraction; The value is for particulate matter containing no

asbestos and <1% crystalline silica.

Stoddard solvent OSHA PEL PEL 500 ppm 2,900 mg/m3;

ACGIH TLV TWA value 100 ppm;

Advice on system design:

Provide adequate exhaust ventilation to control work place concentrations.

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

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Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: paste
Odour: slight odour

Odour threshold: No applicable information available.

Colour: pigmented pH value: not applicable

Melting point: No applicable information available.

Boiling point: not applicable

Sublimation point: No applicable information available.

Flash point: 81.5 °C (ASTM D3278)

178.7 °F

Flammability: not determined

Lower explosion limit: No applicable information available. Upper explosion limit: No applicable information available.

Autoignition: not applicable

Vapour pressure: No applicable information available.

Density: 1.15 g/cm3 (20 °C)

Relative density:
Vapour density:

No applicable information available.

No applicable information available.

No applicable information available.

octanol/water (log Pow):

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: No applicable information available. Viscosity, kinematic: No applicable information available.

Solubility in water: (15 °C)

insoluble

Miscibility with water: not (e.g. <10%)

Solubility (quantitative): No applicable information available. Solubility (qualitative): No applicable information available. Evaporation rate: No applicable information available.

Other Information: If necessary, information on other physical and chemical

parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

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Not an oxidizer.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Harmful by inhalation.

Oral

No applicable information available.

Inhalation

No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation.

Sensitization

Assessment of sensitization: Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

Chronic Toxicity/Effects

Repeated dose toxicity

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Assessment of repeated dose toxicity: Prolonged exposure may cause chronic effects.

Genetic toxicity

Assessment of mutagenicity: The substance was mutagenic in various bacterial test systems; however, a mutagenic effect could not be confirmed in mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity: Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans).

Information on: toluene-2,6-diisocyanate

Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Eye irritation, skin irritation, allergic symptoms

Medical conditions aggravated by overexposure

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Contact may aggravate pulmonary disorders. Persons with history of respiratory disease or hypersensitivity should not be exposed to this product. Preemployment and periodic medical examinations with respiratory function tests (FEV, FVC as a minimum) are suggested. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Based on available Data, the classification criteria are not met.

Persistence and degradability

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Assessment biodegradation and elimination (H2O)

Poorly biodegradable.

The product is unstable in water. The elimination data also refer to products of hydrolysis.

Assessment biodegradation and elimination (H2O)

Information on: TDI

Poorly biodegradable. The product is unstable in water. The elimination data also refer to products of hydrolysis.

Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

USDOT

Classified as combustible liquid in containers greater than 119 gallons.

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

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Registration status:

Chemical TSCA, US released / listed

TSCA § 5 proposed Significant New Use Restriction (SNUR) This product contains a substance subject to a pending SNUR.

40 CFR 721.10789

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

EPCRA 313:

CAS NumberChemical name584-84-9toluene-2,4-diisocyanate91-08-7toluene-2,6-diisocyanate

CERCLA RQ
5000 LBSCAS Number
7664-38-2Chemical name
phosphoric acid
Toluene1000 LBS108-88-3Toluene

100 LBS 108-90-7; 75-28-5; chlorobenzene; Propane, 2-methyl-; toluene-2,4-

584-84-9; 91-08-7 diisocyanate; toluene-2,6-diisocyanate

State regulations

State RTK	CAS Number	Chemical name
PA	13463-67-7	Titanium dioxide
	8052-41-3	Stoddard solvent
	1317-65-3	Limestone
	584-84-9	toluene-2,4-diisocyanate
	91-08-7	toluene-2,6-diisocyanate
	14807-96-6	talc
	53306-54-0	bis(2-propylheptyl) phthalate
	1305-78-8	calcium oxide
MA	8052-41-3	Stoddard solvent
	1317-65-3	Limestone
	584-84-9	toluene-2,4-diisocyanate
	91-08-7	toluene-2,6-diisocyanate
	14807-96-6	talc
	1305-78-8	calcium oxide
	13463-67-7	Titanium dioxide
NJ	13463-67-7	Titanium dioxide
	8052-41-3	Stoddard solvent
	14807-96-6	talc
	53306-54-0	bis(2-propylheptyl) phthalate
	1305-78-8	calcium oxide
	1317-65-3	Limestone
	584-84-9	toluene-2,4-diisocyanate

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health: 2 Fire: 2 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

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BASF NA Product Regulations SDS Prepared on: 2015/07/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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SAFETY DATA SHEET

IRWIN Chalk - Red, Permanent

December 23, 2016

Revision 2

1. PRODUCT and COMPANY IDENTIFICATION

Commercial Product Name: IRWIN Chalk - Red, Permanent

Company: IRWIN Tools
Use of product: Snap line mark

Emergency contact: 1-800-464-7946 8:00am-5:00pm Monday-Friday

2. HAZARDS IDENTIFICATION

Hazards Identification: GHS Classification and Hazard Statement Carcinogenicity – May cause cancer (lung) Category 1A, H350

Signal Word: DANGER Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves and eye protection.

P308 and P313 If exposed or concerned, get medical advice/attention.

P405 Store locked up.

Hazards Not Otherwise Classified or Not Covered by GHS:

Eye: May cause irritation. Chalk dust is discomforting and abrasive to the eyes.

Skin: Prolonged skin contact may cause irritation. When the product is used as intended, it is unlikely to cause discomfort.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Ingestion is considered an unlikely route of entry in commercial or industrial environments.

Inhalation: May cause respiratory tract irritation. When the product is used as intended, it is unlikely to cause discomfort.

Chronic: Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). Prolonged inhalation of iron oxide dust is known to produce a benign lung condition known as siderosis. When the project is used as intended, dust levels should not exceed exposure limits. See Sections 8 and 11.



Hazard Ratings:

Hazardous Material Identification System (HMIS):

Health 2*, Flammability 0, Reactivity 0 *chronic effects

National Fire Protection Association (NFPA):

Health 2, Flammability 0, Reactivity 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value (%)	CAS No.	EC No.
Calcium carbonate	75 - 80	471-34-1	207-439-9
Red Iron Oxide	20 - 25	1309-37-1	215-168-2
Silica (crystalline quartz) ¹	0.1 - 1	14808-60-7	238-878-4

¹ Calcium carbonate may contain crystalline silica at levels between 0.1 and 1.0 % and varies naturally.

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SAFETY DATA SHEET

IRWIN Chalk - Red, Permanent

4. FIRST AID MEASURES

Inhalation: Remove from exposure and move to fresh air immediately. Encourage the patient to blow nose to ensure clear breathing passages. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Skin contact: Wet clothing first to minimize dust generation, then; remove contaminated clothing and shoes. Launder contaminated clothing before wearing again. Wash affected area with water (and soap if available)

Get medical aid in the event of irritation.

Eye contact: Do not rub eyes, rubbing may cause abrasions. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion: If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Additional advice: Show this safety data sheet to the doctor in attendance

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Substance is noncombustible, however; the containers may burn, releasing carbon monoxide, and carbon dioxide. Use appropriate extinguishing media for the combustible material involved in a fire.

Explosion: No information found.

Specific hazards: If oxidation of this product should occur, heat will be liberated which could cause surrounding combustibles to burn.

Special protective equipment for Firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protective equipment as specified in Section 8.

Environmental precautions: Do not allow this material to be released to the environment without proper governmental permits.

Methods for cleaning up: Recover the product whenever possible. Avoid generating dust when sweeping/shoveling up. If required, wet the material with water to prevent creating dust. Pick up and place in a suitable container for reclamation or disposal. Follow applicable OSHA regulations (29 CFR 1910.120)

7. HANDLING AND STORAGE

Storage: Store this product in a tightly-closed container in a dry, well-ventilated area away from incompatible substances.

Handling: Avoid creating, or breathing dust. Practice good personal hygiene, (hand washing, etc.) after using this product. Avoid contact with skin and eyes.

Packaging material: No information found.

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IRWIN Chalk - Red, Permanent

8. EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure Guidelines

Exposure Limit 8-Hour TWA¹ (mg/m³)

Component	CAS No.	% by weight	OSHA PEL	ACGIH TLV	NIOSH REL
Calcium Carbonate	471-34-1;	70-75	15 ² 5 ³	10 ²	10 ² 5 ³
(Limestone)	(1317-65-3)				
Red Iron Oxide	1309-37-1	25-30	10	5 ³	5
Silica-Crystalline	14808-60-7	0.1-1.0	0.05^{3}	0.025^{3}	0.05^{3}
Quartz ⁴					

¹ TWA = Time-weighted average

Exposure and Engineering Controls: Facilities storing or utilizing this material should have potable water available for washing eyes and skin. Use sufficient general area (or outdoor) ventilation. Local exhaust ventilation should be used if airborne concentrations of dust exceed limits cited in Section 8.

Personal protective equipment:

Hand protection: Wear protective gloves

Eye protection: Wear safety glasses, or chemical goggles in windy conditions or where eye

contact is possible.

Respiratory protection: When engineering controls are not sufficient to reduce exposure, seek professional advice prior to respirator selection and use. Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Hygiene measures: Wash contaminated clothing before reuse. **Environmental exposure controls:** No information found.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
Color: Black
Odor: Odorless.
pH (at 10% solids): 8.5-9.5

Boiling point/range: No data available.

Melting point/range: Decomposes at 1,517 °F (825°C).

Flash point:

Evaporation rate:

Vapor density:

Solubility in water:

Explosive properties:

Oxidizing properties:

Vapor pressure:

No data available.

Relative density (H₂O=1): 3.40-3.45

Viscosity: No data available. Partition coefficient (n-octanol/water): No data available.

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² Total dust.

³ Respirable dust.

Calcium carbonate may contain crystalline silica at levels between 0.1 and 1.0 % and varies naturally.

SAFETY DATA SHEET

IRWIN Chalk - Red, Permanent

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, calcium oxide.

Materials to avoid: Strong oxidizing agents, acids, aluminum, fluorine, magnesium, peroxides hydrazine, calcium hypochlorite, performic acid, and bromine pentafluoride.

Conditions to avoid: Incompatible materials.

Hazardous Polymerization: Does not occur.

11. TOXICOLOGICAL INFORMATION

Note: Toxicological effects described in this section are those that would be expected based on data from the components of this product.

Acute toxicity: Calcium carbonate (CAS# 471-34-1): Draize test, rabbit, eye: 750 ug/24H Severe; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, rat: LD50 = 6,450mg/kg.

Inhalation: (Silica, crystalline quartz) Human: LC_{Lo}: 300 μg/m³/ intermittent exposure over a 10-year period produced pulmonary system effects.

Skin contact: (Calcium carbonate) Rabbit: 500mg administered for 24 hours produces moderate skin irritation.

Eye contact: (Calcium carbonate) Rabbit: 0.750 mg administered for 24 hours produced severe irritation.

Ingestion: (Calcium carbonate) Rat: LD₅₀: 6,450 mg/kg. (Iron Oxide) Rat: LD₅₀: >5,000 mg/kg.

Chronic toxicity/Carcinogenicity: Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits.

Quartz – crystalline silica:

The International Agency for Research on Cancer (IARC) has designated this substance Group 1, "carcinogenic to humans".

The National Toxicology Program (NTP) has designated this substance: Group K "known to be a human carcinogen"

American Conference of Governmental Industrial Hygienists (ACGIH) has designated this substance A2; suspected human carcinogen. The agent is carcinogenic in experimental animals at dose levels, by route of administration, at sites of histologic type(s) or by mechanism(s) considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

12. ECOLOGICAL INFORMATION

Bioaccumulation: No information found. Ecotoxicity effects: No information found.

Fish Toxicity: Golden Orfe (Leucisus idus) LC_{Lo}: greater than 1,000 mg/l. Limestone (which is primarily composed of calcium carbonate) is <u>not</u> classified as a "Toxic pollutant" or a "hazardous substance under Section 307 and 311 of the United States Clean Water Act.

13. DISPOSAL CONSIDERATIONS

Waste from residues of this product is <u>not</u> a hazardous waste according to U.S. Environmental Protection Agency (EPA) regulations. Disposal by landfill may be acceptable. Consult an expert on the disposal of recovered material for compliance with state, provincial, and/or local regulations.

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SAFETY DATA SHEET

IRWIN Chalk - Red, Permanent

14. TRANSPORT INFORMATION

U.S. DOT: Not regulated

ADR/RID: Not regulated

IMDG: Not regulated

ICAO/IATA: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA: Ingredients are listed as air contaminants (29 CFR 1910.1000).

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA inventory.

CERCLA: Hazardous Substance, (40 CFR 302.4): Not Listed.

Extremely Hazardous Substance (40 CFR 355): Not Listed.

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category:

"An immediate (acute) and chronic health hazard."

Chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372: None.

STATE REGULATIONS:

California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65)

This product contains the following Proposition 65 regulated materials known to the State of California to cause cancer or reproductive harm. The listed typical amounts are a result of their natural presence in the raw materials from which this product is produced.

Silica-crystalline quartz equal to, or less than 1.0 percent

CANADA WHIMS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the SDS contains all of the information required by the CPR.

16. OTHER INFORMATION

The contents and format of this SDS are in accordance with the U.S. Hazard Communication Standard 29 CFR 1910.1200; the Canadian CPR, and Workplace Hazardous Materials Information System (WHMIS); and EEC Commission Directive 1999/45/EC, and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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SAFETY DATA SHEET

IRWIN Chalk - Red, Permanent

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of document

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Safety Data Sheet (SDS)



Wood and Wood Dust (without chemical treatments or resins/additives), including Untreated Lumber (all species and grades), Logs, Chips, and Sawdust

1. Identification

TRADE NAME(S): Wood and Wood Dust (without chemical treatments or

resins/additives), including Untreated Lumber (all species and

grades), Logs, Chips, and Sawdust

NOTE: For wood products containing chemical treatments or resins/additives, see specific SDS and label for those products

SYNONYMS and/or GRADES: None

PRODUCT USES: Building materials, wood pulp raw material, fuel, landscaping

material

CHEMICAL NAME/CLASS: Wood Products

MANUFACTURER'S NAME: Weyerhaeuser

ADDRESS: 220 Occidental Ave S., Seattle, WA 98104

EMERGENCY PHONE (DOT): (844) 523-4081 (3E Company)

BUSINESS PHONE: (206) 539-3910
INTERNET ACCESS: See Section 16
REVISED DATE: August 27, 2018

2. Hazard(s) Identification

Signal Word: DANGER

NOTE: Wood dust may become hazardous while being transported or handled by downstream users. Products not containing wood dust are not hazardous as shipped but may become hazardous as the result of downstream activities (e.g. cutting, sanding) which creates small particles. Potential hazards are described below.

2. Hazard(s) Identification (cont'd.)

Classification	Hazard Statement(s)	Pictogram(s)
HEALTH Carcinogen- Category 1 (for non-lumber products If crystalline silica present) (H350) *	Crystalline silica may cause cancer of the lung	
Carcinogen- Category 1A (H350) *	Wood dust may cause nasopharyngeal cancer and/or cancer of the nasal cavities and paranasal sinuses by inhalation	
Skin Irritation Category 2 (H315)	Causes skin irritation	
Specific Target Organ Toxicity- Single Exposure (STOT) Category 3 (H335)	May cause respiratory irritation	<u>.</u>
Eye Irritation Category 2B (H320)	Causes eye irritation	None
Combustible Dust (OSHA Defined Hazard)	If product contains or is converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air	None

^{*}Hazard codes (GHS)

HMIS Rating (Scale 0-4): Health = 2^* Fire = 1 Physical Hazard = 0 NFPA Rating (Scale 0-4): Health = 1 Fire = 1 Reactivity = 0

Precautionary Statement(s):

Prevention Statements:

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from sparks, flame or other heat sources.

P243: Take precautionary measures against static discharge.

P261+284: Avoid breathing dust. In case of inadequate ventilation wear an approved respirator suitable for conditions of use.

P271: Use outdoors or in a well-ventilated area.

P280: Wear appropriate protective equipment for eye and skin exposure.

2. Hazard(s) Identification (cont'd.)

Response Statements:

P304+P340+P313: If inhaled and breathing becomes difficult, remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a doctor or other qualified medical professional.

P333+P313: If skin irritation or rash occurs get medical advice/attention.

P352+P264: If on skin wash with plenty of soap and water.

P362+P364: Take off contaminated clothing and wash before reuse.

P305+P351+P338: If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do so.

Disposal:

P501: Dispose of in accordance with federal, state and local regulations.

Ingredients of Unknown Acute Toxicity (>1%): NAP

3. Composition/Information on Ingredients

Ingredient(s)s	CAS#	Wt.%
Wood (wood dust, softwood or hardwood, logs, wood chips)	None	85-100

Common names: Untreated lumber, untreated wood, sawdust, sander dust, raw logs, wood chips.

NOTE: Some wood products such as logs, chips and sawdust may include additional material such as soil and rock fragments which may contain particles of crystalline silica.

4. First Aid Measures

Inhalation: Remove to fresh air if respiratory symptoms are experienced. Seek medical help if persistent irritation, severe coughing, breathing difficulty or other serious symptoms occur.

Eye Contact: Treat dust in eye as a foreign object. Flush with water to remove dust particles. Remove contact lenses if present and easy to do so. Avoid touching or rubbing eyes to avoid further irritation or injury. Seek medical help if irritation persists.

Skin Contact: Wood dust may elicit contact dermatitis. Seek medical help if rash, irritation or dermatitis persists.

Skin Absorption: Not known to be absorbed through the skin.

Ingestion: Not applicable under normal use.

Symptoms or Effects:

Acute Symptoms/Effects – Dust may cause mechanical irritation of the eyes and respiratory system. Dust can cause physical obstructions in the nasal passages, resulting in dryness of nose, dry cough, and sneezing.

Delayed Symptoms/Effects – Unique delayed effects are not anticipated after exposure. See Section 11 for additional information on chronic effects.

5. Fire-fighting Measures

Extinguishing Media and Restrictions: Water, carbon dioxide and sand.

Specific Hazards, Anticipated Combustion Products: Thermal decomposition (i.e. smoldering, burning) products include carbon monoxide, carbon dioxide, aliphatic aldehydes, terpenes, and polycyclic aromatic hydrocarbons.

Autoignition Temperature: Variable [typically 400°-500°F (204°-260°C)]

Special Firefighting Equipment/Procedures: No special equipment anticipated. Beware of potential combustible dust explosion hazard.

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5. Fire-fighting Measures (cont'd.)

Unusual Fire and Explosion Hazards: Depending on moisture content, particle diameter and concentration, wood dust may pose a flash fire or deflagration hazard. If suspended in air in an enclosure or container and ignited, an explosion may occur due to the development of internal pressure causing rupture. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the Minimum Explosible Concentration (MEC) for wood dusts. Conduct regular housekeeping inspections and cleaning to prevent excessive dust accumulations. Design and maintain control equipment to minimize fugitive combustible dust emissions. Ensure that ventilation systems are operating properly to capture, transport and contain combustible dust while controlling ignition sources. Reference NFPA 652 "Standard on the Fundamentals of Combustible Dust".

6. Accidental Release Measures

Steps to be taken in case Material Is Released or Spilled: Sweep or vacuum up for recovery and disposal. Avoid creating dusty conditions whenever feasible. Maintain good housekeeping to avoid accumulation of wood dust on exposed surfaces. Use approved filtering facepiece respirator ("dust mask") or higher levels of respiratory protection as indicated and goggles where ventilation is not possible and exposure limits may be exceeded or for additional worker comfort.

7. Handling and Storage

Precautions to be taken in Handling and Storage: Dried wood dust may pose a combustible dust hazard. Keep away from ignition sources. Avoid eye contact. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of wood dust. Store in well-ventilated, cool, dry place away from open flame.

8. Exposure Control Measures/Personal Protection

Exposure Limits/Guidelines:

Ingredient(s)	Agency	Exposure Limit(s)	Comments
Wood (wood dust, softwood or hardwood, logs, wood chips)	OSHA	PEL-TWA 15 mg/m ³ (see footnote ^A below)	Total Dust (PNOR)
	OSHA	PEL-TWA 5 mg/m ³ (see footnote ^A below)	Respirable dust fraction (PNOR)
	ACGIH	TLV-TWA 1 mg/m ³	Inhalable fraction

A In AFL-CIO v OSHA, 965 F. 2d 962 (11th Cir. 1992), the Court overturned OSHA's 1989 Air Contaminants Rule, including the specific PEL's for wood dust that OSHA had established at that time. The 1989 vacated PEL's were: 5 mg/m³ PEL-TWA and 10 mg/m³ STEL (15 min), all softwood and hardwood except Western Red Cedar. Wood dust is now regulated by OSHA as "Particulates Not Otherwise Regulated" (PNOR), which is also referred to as "nuisance dust". However, some states have regulated wood dust PEL's in their state plans. Additionally, OSHA indicated that it may cite employers under the OSH Act general duty clause in appropriate circumstances.

Ventilation:

LOCAL EXHAUST – Provide local exhaust as needed so that exposure limits are met. Ventilation to control dust should be considered where potential explosive concentrations and ignition sources are present. The design and operation of any exhaust system should consider the possibility of explosive concentrations of wood dust within the system. See "SPECIAL" section below. Use of tool mounted exhaust systems should also be considered, especially when working in enclosed areas.

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8. Exposure Control Measures/Personal Protection (cont'd.)

- MECHANICAL (GENERAL) Provide general ventilation in processing and storage areas so that exposure limits are met.
- SPECIAL Ensure that exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or suppression systems designed and operated in accordance with applicable standards if the operating conditions justify their use.
- OTHER ENGINEERING CONTROLS Cutting and machining of product should preferably be done outdoors or with adequate ventilation and containment.

Personal Protective Equipment:

- RESPIRATORY PROTECTION Use filtering facepiece respirator ("dust mask") tested and approved under appropriate government standards such as NIOSH (US), CSA (Canada), CEN (EU), or JIS (Japan) where exposure limits may be exceeded or for additional worker comfort or symptom relief. Use respiratory protection in accordance with jurisdictional regulatory requirements similar to the OSHA respiratory protection standard 29CFR 1910.134 following a determination of risk from potential exposures which includes consideration of potential respirable crystalline silica exposures.
- EYE PROTECTION Approved goggles or tight fitting safety glasses are recommended when excessive exposures to dust may occur (e.g. during clean up) and when eye irritation may occur.
- PROTECTIVE GLOVES Cloth, canvas, or leather gloves are recommended to prevent direct contact and to minimize potential slivers and mechanical irritation from handling product.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT Outer garments which cover the arms may be desirable in extremely dusty areas.
- WORK/HYGIENE PRACTICES Follow good hygienic and housekeeping practices. Clean up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air blowdown or other practices that generate high airborne-dust concentrations.

9. Physical/Chemical Properties

Appearance: Light to dark colored, granular solid, saw dust, wood chips, logs and untreated lumber (all species and grades). Color and odor are dependent on the wood species and time since any wood dust was generated.

Odor/Odor Threshold(s):NAVpH:NAPMelting/Freezing Point:NAPBoiling Point (@ 760 mm Hg) and Range:NAPFlash Point:NAPEvaporation Rate:NAPFlammability:NAVLower/Upper Explosive Limits:40,000 mg of dust per cubic meter of air is often used as the LEL for wood dusts.Vapor Pressure (mm Hg):NAPVapor Density (air = 1; 1 atm):NAPRelative Density:NAPSolubility:<0.1	dust was generated.	
Melting/Freezing Point:NAPBoiling Point (@ 760 mm Hg) and Range:NAPFlash Point:NAPEvaporation Rate:NAPFlammability:NAVLower/Upper Explosive Limits:40,000 mg of dust per cubic meter of air is often used as the LEL for wood dusts.Vapor Pressure (mm Hg):NAPVapor Density (air = 1; 1 atm):NAPRelative Density:NAPSolubility:<0.1	Odor/Odor Threshold(s):	NAV
Boiling Point (@ 760 mm Hg) and Range: Flash Point: Evaporation Rate: NAP Flammability: Lower/Upper Explosive Limits: Vapor Pressure (mm Hg): Vapor Density (air = 1; 1 atm): Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP NAP NAP NAP	pH:	NAP
Flash Point: Evaporation Rate: NAP Flammability: NAV Lower/Upper Explosive Limits: Vapor Pressure (mm Hg): Vapor Density (air = 1; 1 atm): Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP NAP NAP NAP	Melting/Freezing Point:	NAP
Evaporation Rate: Flammability: NAV Lower/Upper Explosive Limits: Vapor Pressure (mm Hg): Vapor Density (air = 1; 1 atm): Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP NAP NAP NAP NAP	Boiling Point (@ 760 mm Hg) and Range:	NAP
Flammability: Lower/Upper Explosive Limits: 40,000 mg of dust per cubic meter of air is often used as the LEL for wood dusts. Vapor Pressure (mm Hg): NAP Vapor Density (air = 1; 1 atm): Relative Density: Solubility: VAP NAP NAP NAP NAP NAP NAP NAP	Flash Point:	NAP
Lower/Upper Explosive Limits: 40,000 mg of dust per cubic meter of air is often used as the LEL for wood dusts. Vapor Pressure (mm Hg): NAP Vapor Density (air = 1; 1 atm): Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP	Evaporation Rate:	NAP
as the LEL for wood dusts. Vapor Pressure (mm Hg): Vapor Density (air = 1; 1 atm): Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP	Flammability:	NAV
Vapor Pressure (mm Hg): NAP Vapor Density (air = 1; 1 atm): NAP Relative Density: NAP Solubility: <0.1 Partition Coefficient (n-octanol/water): NAP	Lower/Upper Explosive Limits:	40,000 mg of dust per cubic meter of air is often used
Vapor Density (air = 1; 1 atm): NAP Relative Density: NAP Solubility: <0.1 Partition Coefficient (n-octanol/water): NAP		as the LEL for wood dusts.
Relative Density: Solubility: Partition Coefficient (n-octanol/water): NAP	Vapor Pressure (mm Hg):	NAP
Solubility: <0.1 Partition Coefficient (n-octanol/water): NAP	Vapor Density (air = 1; 1 atm):	NAP
Partition Coefficient (n-octanol/water): NAP	Relative Density:	NAP
	Solubility:	<0.1
A . I . I.I	Partition Coefficient (n-octanol/water):	NAP
Autoignition Temperature: Variable [typically 400°-500°F (204°-260°C)]	Autoignition Temperature:	Variable [typically 400°-500°F (204°-260°C)]
Decomposition Temperature: NAV	Decomposition Temperature:	NAV
Viscosity: NAP	Viscosity:	NAP
Other Properties: NAP	Other Properties:	NAP

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10. Stability and Reactivity

Reactivity: NAP

Hazardous Polymerization: ☐ May occur ☑ Will not occur

Stability: ☐ Unstable ☑ Stable Conditions to Avoid: Avoid all sources of ignition.

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents and drying oils.

Hazardous Decomposition or By-Products: Natural decomposition of organic materials such as wood may produce toxic gases and an oxygen deficient atmosphere in enclosed or poorly ventilated areas. Spontaneous and rapid hazardous decomposition will not occur.

Sensitivity to Static Discharge: Airborne wood dust may be ignited by a static discharge depending on airborne concentrations, particle size and moisture content.

11. Toxicological Information

Likely Route(s) of Exposure:

□ Ingestion:
□ Skin: Dust
□ Inhalation: Dust
□ Eye: Dust

Signs and Symptoms of Exposure: See section 4

Wood Dust - NTP: According to its Report on Carcinogens, Fourteenth Edition, NTP states, "Wood dust is known to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in humans". An association between wood dust exposure and cancer of the nasal cavity has been observed in case reports, cohort studies, and case-control studies that specifically addressed nasal cancer. Associations with cancer of the nasal cavities and paranasal sinuses were observed both in studies of people whose occupations are associated with wood dust exposure and in studies that directly estimated wood dust exposure. This classification is based primarily on increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust. There is inadequate evidence for the carcinogenicity of wood dust from studies in experimental animals according to NTP.

Silica - NTP: According to its Report on Carcinogens, Fourteenth Edition, NTP classifies "Silica, Crystalline (respirable size)" as Known to be a human carcinogen.

Wood Dust: IARC – Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma to the nasal cavities and paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum.

Silica: IARC – Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. IARC concluded that "crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1)".

Carcinogenicity Listing(s):

NTP: Wood dust, Known Human Carcinogen.

☑ IARC Monographs: Wood dust, Group 1 - Carcinogenic to Humans.

OSHA Regulated: Crystalline Silica - 29 CFR 1910.1053

11. Toxicological Information (cont'd.)

Toxicity Data:

Wood dust (softwood or hardwood)

Dusts generated from sawing, sanding or machining the product may cause respiratory irritation, nasal dryness and irritation, coughing and sinusitis. NTP and IARC (Group 1) classify wood dust as a human carcinogen. See Section 2 above.

Target Organs: Eyes, skin, and respiratory system.

Note: Weyerhaeuser evaluated the studies referenced in the ACGIH® TLV® Documentation for Wood Dust and others which included potential allergenic references for wood species which may cause skin or respiratory sensitization. There are a limited number of studies of highly variable consistency which reference sensitization from some species of wood. When the total weight of evidence is considered this product is considered to be an eye, skin and respiratory irritant and not a respiratory or skin sensitizer according to health hazard classification criteria.

12. Ecological Information

Ecotoxicity: NAV for finished product.

Biopersistance and Degradability: Wood in this product would be expected to be biodegradable.

Bioaccumulation: Not expected to bioaccumulate.

Soil Mobility: NAV

Other Adverse Effects: NAP

13. Disposal Considerations

Waste Disposal Method: Dry land disposal or incineration is acceptable in most areas. It is, however, the user's responsibility to determine at the time of disposal whether your waste meets any jurisdictional criteria. Note that wood dust may pose a combustible dust hazard.

14. Transport Information

Mode: (air, land, water) Not regulated as a hazardous material by the U.S. Department of Transportation. Not listed as a hazardous material in Canadian Transportation of Dangerous Goods (TDG) regulations. Not regulated as a hazardous material by IMDG or IATA regulations concerning the transport of hazardous materials.

UN Proper Shipping Name:

UN/NA ID Number:

Hazard Class:

Packing Group:

Environmental Hazards (Marine

NAP

Pollutant):

Special Precautions NAP

15. Regulatory Information

TSCA: NAP CERCLA: NAP DSL: NAP

OSHA: Wood products are not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding or machining activities is considered hazardous.

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15. Regulatory Information (cont'd.)

STATE RIGHT-TO-KNOW:

California Proposition 65 -

WARNING: This product can expose you to chemicals including wood dust which are known to the State of California to cause cancer, and methanol, which are known to the State of California to cause birth defects or other reproductive harm. Drilling, sawing, sanding or machining wood products can expose you to wood dust. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood. This product may also release silica, crystalline (airborne particles of respirable size), a chemical known to the state of California to cause cancer.

<u>Pennsylvania</u> – Wood dust and crystalline silica appear on Pennsylvania's Appendix A, Hazardous Substance List.

<u>New Jersey</u> – Wood dust and crystalline silica appear on New Jersey's Environmental Hazardous Substance List.

SARA 313 Information: This material does not contain any chemical ingredient (s) that exceed the de minimis reporting levels established by SARA Title III, section 313 and 40 CFR section 372.

SARA 311/312 Hazard Category: This material has been reviewed according to the EPA "Hazard Categories" promulgated under SARA Title III Sections 311 and 312 and is considered, under applicable definitions, to meet the following categories:

An immediate (acute) health hazard Yes
A delayed (chronic) health hazard Yes
A corrosive hazard No
A fire hazard No
A reactivity hazard No
A sudden release hazard No

FDA: Not intended for use as a food additive or indirect food contact item.

WHMIS Classification: Wood and products made from wood are exempt from WHMIS per the Hazardous Products Act (HPA). However, wood dust released during the use or modifications of wood products may be hazardous. See Section 2 for health and combustible dust hazard information.

16. Other Information

Date Prepared: 11/05/2010 **Date Revised:** 08/27/2018

Prepared By: Weyerhaeuser Company Health and Safety.

Weyerhaeuser SDS available on:

http://www.wy.com/sustainability/environment/product-stewardship/safety-data-sheets/

User's Responsibility: The information contained in this Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if the product is suitable for its proposed application(s) and to follow necessary safety precautions. The user has the responsibility to ensure that the most current SDS is used.

Definition of Common Terms:

ACGIH® = American Conference of Governmental Industrial Hygienists

C = Ceiling Limit

CAS# = Chemical Abstracts System Number DOT = U. S. Department of Transportation

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16. Other Information (cont'd.)

DSL = Domestic Substance List

EC# = Identifying Number Assigned to Chemicals Contained in the European Inventory of

Existing Chemical Substances (EINECS)

EC₅₀ = Effective Concentration That Inhibits the Endpoint to 50% of Control Population

EPA = U.S. Environmental Protection Agency

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HMIS = (Canada) Hazardous Materials Identification System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods

LC₅₀ = Concentration in Air Resulting in Death To 50% of Experimental Animals

LCLo = Lowest Concentration in Air Resulting in Death

LD₅₀ = Administered Dose Resulting in Death to 50% of Experimental Animals

LDLo = Lowest Dose Resulting in Death

LEL = Lower Explosive Limit LFL = Lower Flammable Limit

MSHA = Mine Safety and Health Administration

NAP = Not Applicable NAV = Not Available

NIOSH = National Institute for Occupational Safety and Health

NFPA = National Fire Protection Association

NPRI = (Canada) National Pollution Release Inventory

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

PNOR = Particulate Not Otherwise Regulated
PNOS = Particulate Not Otherwise Specified
RCRA = Resource Conservation and Recovery Act
STEL = Short-Term Exposure Limit (15 minutes)
STP = Standard Temperature and Pressure

TCLo = Lowest Concentration in Air Resulting in a Toxic Effect

TDG = (Canada) Transportation of Dangerous Goods
TDLo = Lowest Dose Resulting In a Toxic Effect

TLV = Threshold Limit Value
TSCA = Toxic Substance Control Act
TWA = Time-Weighted Average (8 hours)

UFL = Upper Flammable Limit

WHMIS = (Canada) Workplace Hazardous Materials Information System

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Wood and Wood Dust (without chemical treatments or resins/additives), including Untreated Lumber (all species and grades), Logs, Chips, and Sawdust



Danger

Wood dust may cause nasopharyngeal cancer and/or cancer of the nasal cavities and paranasal sinuses by inhalation. May cause respiratory, skin and eye irritation.

May form combustible dust concentrations in air if small particles become airborne or are formed during processing or handling

Precautions: Do not handle until all safety precautions have been read and understood. Use outdoors or in a well-ventilated area. Avoid breathing dust and wear appropriate protective equipment for respiratory, skin or eye exposures. Prevent dust release and accumulations to minimize hazards. Take off contaminated clothing and wash before reuse. Keep dust away from ignition sources such as heat, sparks, and flame.

First Aid:

<u>If in eyes</u>, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Contact a qualified medical professional if symptoms persist.

If on skin, wash with soap and water. If skin irritation or rash occurs, get medical advice/attention.

<u>Inhalation</u>, if experiencing respiratory symptoms, remove to fresh air. Contact a qualified medical professional for serious or persistent respiratory symptoms.

Weyerhaeuser
220 Occidental Ave S.
Seattle, WA 98104
1-800-525-5440





Duo Patch

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): Duo Patch

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Concrete repair mortar

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Company Address Cont: Kansas City, MO 64108

Business Phone: (816) 968-5600

Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Current Revision: February 1, 2015
Date of Last Revision: May 17, 2012

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a gray powder with minimal odor.

<u>Health Hazards</u>: May cause skin and respiratory irritation and burns to the eyes. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to the lungs. Contains components that are defined as human carcinogens.

Flammability Hazards: This product is not considered flammable.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols Not Regulated



EU and GHS Symbols

Signal Word Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

238-878-4 is not listed in Annex I 266-043-4 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Crystalline Silica (Quartz)/Silica Sand, Portland

Cement, Calcium Oxide, Aluminum Sulfate



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2.2 Label Elements:

GHS Hazard Classifications: Carcinogenicity Category 2

STOT – SE Category 3 (Respiratory System)

Skin Irritation Category 2 Skin Sensitization Category 1 Eye Damage Category 1

Hazard Statements: H351 Suspected of causing cancer

H373 May cause damage to organs

(Respiratory System) through prolonged or

repeated exposure

H335 May cause respiratory irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions

have been read and understood.

P260 Do not breath

dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated

area.

P272 Contaminated work clothing should not be

allowed out of the workplace

P270 Do not eat, drink or smoke when using

this product.

P280 Wear protective gloves/eye

protection/face protection.

Response Statements: P308+P313 IF exposed or concerned: Get

medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/Doctor if you

feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of

water.

P333+P312 If skin irritation or rash occurs: Get

medical advice/attention.

P362+P364 Take off contaminated clothing and

wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON

CENTER/Doctor.

Storage Statements: P403+P233 Store in a well-ventilated place.

Keep container tightly closed.

P405 Store locked up.



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Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations..

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory irritation. Skin Contact: May cause irritation to skin.

Eye Contact: Contact with the eyes may cause burns or irritation. Ingestion: May cause gastrointestinal irritation, nausea, and vomiting. **Chronic:** Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Eyes, Skin, Respiratory

Chronic: Lung, Skin

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Crystalline Silica (Quartz)/ Silica Sand	50–70%	14808-60-7	238-878-4	Carc. 2, STOT RE2
Portland Cement	25–45%	65997-15-1	266-043-4	STOT SE3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1
Calcium Oxide	3–10%	1305-78-8	215-138-9	STOT SE3, Skin Irrit. 2, Eye Dam. 1
Aluminum Sulfate	1–4%	10043-01-3	233-135-0	STOT SE3, Skin Irrit. 2, Eye Dam. 1

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center if you feel unwell.



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If professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical Conditions Generally Aggravated By Exposure:

Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin and respiratory may cause

irritation. Contact with the eyes may cause burns. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to

the lungs.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

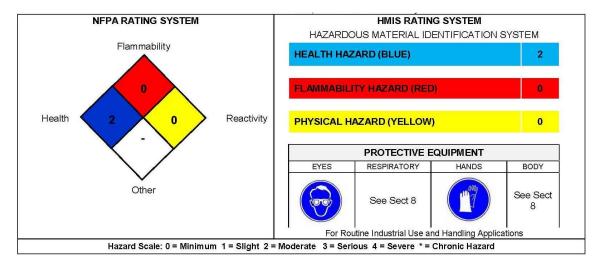
- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.



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• If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

If liquid was introduced, construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE



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7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Rapid setting concrete repair mortar.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL	ACGIH TWA
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	TWA 0.1 mg/m3 (resp) TWA 0.3 mg/m3 (total)	Ca TWA 0.05 mg/m3	0.025 mg/m3
Portland Cement	65997-15-1	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	TWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)	10 mg/m3 (total)
Calcium Oxide	1305-78-8	TWA 5 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3
Aluminum Sulfate	10043-01-3	TWA 2 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Maintain airborne contaminant concentrations

below guidelines listed above. Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

Eye Protection: Safety glasses or goggles are required.

> If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to

prevent skin contact. If necessary, refer to U.S.

OSHA 29 CFR 1910.138, the European

Hand Protection:

Body Protection:



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Standard DIN EN 374, the appropriate

Standards of Canada, Australian Standards, or

relevant Japanese Standards.

Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

ppearance (Physical State and Color): Gray powder

Odor: Minimal

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: No data available Flash Point: No data available Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available **Relative Density:** No data available

Specific Gravity: 2.6 - 3.2 Solubility in Water: Miscible

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.
10.4 Conditions to Avoid: No data available.



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10.5 Incompatible Substances: Hydrogen fluoride. **10.6 Hazardous Decomposition Products:** No data available.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data: No data available

Suspected Cancer Agent: Crystalline Silica (Quartz)/Silica Sand (CAS 14808-60-7) is

found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore is considered

to be a cancer-causing agent by these agencies.

Irritancy: Skin, eye, and respiratory irritant.

Sensitization to the Product: This product is expected to cause skin sensitization.

Germ Cell Mutagenicity: This product does not contain ingredients that are suspected

to be a germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

DOT Label(s) Required:

Not applicable
Not applicable
Not applicable



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North American Emergency
Response Guidebook Number:
Not applicable

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are not designated by

None

Not regulated.

the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number:

Proper Shipping Name:
Hazard Class Number and Description:
Packing Group:

EMS-No:

Not applicable
Not applicable
Not applicable
Not applicable

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does contain "Silica, crystalline", which is on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations



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15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: February 1, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET

Printing date 05/26/2015 Reviewed on 05/26/2015

1 Identification

· Product identifier

· Trade name: Patchcrete 1003

· Article number: PT1003

· Recommended use and restriction on use

· Recommended use: Concrete surfacer

· Restrictions on use: No further relevant information available.

· Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: Lyons Manufacturing, Inc

8900 Forney Rd Dallas, TX 75227 (214) 381-8100

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

· Additional information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- · Label elements
- · GHS label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

- · Hazard pictograms Not Regulated
- · Signal word Not Regulated
- · Hazard-determining components of labeling: None.
- · Hazard statements Not Regulated
- · Precautionary statements Not Regulated
- · Hazard description:
- · WHMIS-symbols: Not hazardous under WHMIS.
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

V Readivity 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

REACTIVITY Reactivity = 0

(Contd. on page 2)

Printing date 05/26/2015 Reviewed on 05/26/2015

Trade name: Patchcrete 1003

(Contd. of page 1)

- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:

68891-38-3 Alcohols C12-14, ethoxylated, sulfates, sodium salts

< 3%

Eye Dam. 1, H318 Skin Irrit. 2, H315

Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Clean with water and soap.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

- · Danger No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: None.

(Contd. on page 3)

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· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No further relevant information available.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Engineering controls: No further relevant information available.
- · Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Eye protection:



Safety glasses

Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid White Odor: Mild

· Odor threshold: Not determined.

• pH-value at 20 °C (68 °F): 9.5 - 10.5

· Change in condition

Melting point/Melting range: Undetermined.

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Trade name: Patchcrete 1003

(Contd. of page 4)

Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:
Upper:
Not determined.
Not determined.

Vapor pressure at 20 °C (68 °F):
23 hPa (17 mm Hg)

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Partly soluble.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic at 20 °C (68 °F): < 400 mPas **Kinematic:** Not determined.

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

To avoid thermal decomposition do not overheat.

· Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with strong acids and oxidizing agents.

· Conditions to avoid

Keep away from heat and direct sunlight.

Store away from oxidizing agents.

- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Sulfur oxides (SOx)

(Contd. on page 6)

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(Contd. of page 5)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- on the skin: Slight irritant effect on skin and mucous membranes.
- · on the eye: Slight irritant effect on eyes.
- · Sensitization: No sensitizing effects known.
- · Subacute to chronic toxicity: No further relevant information available.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- Carcinogenic categories
- · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Probable Routes of Exposure

Inhalation.

Eye contact.

Skin contact.

· Repeated Dose Toxicity: No further relevant information available.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No further relevant information available.

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Trade name: Patchcrete 1003

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Not Regulated

· UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not Regulated

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Not Regulated

· Packing group

· DOT, ADR, IMDG, IATA Not Regulated

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation":

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- **United States (USA)**
- ·SARA
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

Some ingredients listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· State Right to Know Listings

None of the ingredients is listed.

- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)

Some ingredients listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 05/26/2015 / -

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation
IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

· Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

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1 Identification

· Product identifier

· Trade name: Patchcrete 1005

· Article number: PT1005

· Recommended use and restriction on use

· Recommended use: Concrete surfacer

· Restrictions on use: No further relevant information available.

· Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:
 Lyons Manufacturing, Inc

8900 Forney Rd Dallas, TX 75227 (214) 381-8100

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· Additional information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS05 GHS07 GHS08

(Contd. on page 2)

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Trade name: Patchcrete 1005

(Contd. of page 1)

· Signal word Danger

Hazard-determining components of labeling:

Quartz (SiO2)

Cement, portland, chemicals

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H335 May cause respiratory irritation.

· Precautionary statements

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P302+P352 If on skin: Wash with plenty of water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Hazard description:

· WHMIS-symbols:

As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.

D2A - Very toxic material causing other toxic effects



- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*2 Health = *2 • Fire = 0

REACTIVITY Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

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Trade name: Patchcrete 1005

(Contd. of page 2)

- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:	
	Quartz (SiO2)	60-80%
	♦ Carc. 1A, H350	
65997-15-1	Cement, portland, chemicals	20-40%
	Eye Dam. 1, H318 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
	♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
92704-41-1	Kaolin, calcined	1-5%

Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After skin contact:

Brush off loose particles from skin.

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

Coughing

Breathing difficulty

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Allergic reactions

Irritant to skin and mucous membranes.

Strong irritant with the danger of severe eye injury.

May cause respiratory irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· Danger

May cause cancer.

Danger of impaired breathing.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains Cement, portland, chemicals. May produce an allergic reaction.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No further relevant information available.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Damp down dust with water spray.

Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

- · Handling:
- · Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

· Information about protection against explosions and fires:

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Protect from humidity and water.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

14808-60-7 Quartz (SiO2)		
PEL (USA)	see Quartz listing	
REL (USA)	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.025* mg/m³ *as respirable fraction	
EL (Canada)	Long-term value: 0.025 mg/m³ ACGIH A2; IARC 1	
EV (Canada)	Long-term value: 0.10* mg/m³ *respirable fraction	
LMPE (Mexico)	Long-term value: 0.025* mg/m³ A2, *fracción respirable	

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		(Contd. of page 5)
65997-15-1 Cen	nent, portland, chemicals	(comare: page o)
PEL (USA)	Long-term value: 50 mppcf or 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV (USA)	Long-term value: 1* mg/m³ E; *as respirable fraction	
EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust;**respirable fraction	
EV (Canada)	Long-term value: 10(D) mg/m³ total dust	
LMPE (Mexico)	Long-term value: 1* mg/m³ A4, *fracción respirable	
92704-41-1 Kad	lin, calcined	
EL (Canada)	Long-term value: 2 mg/m³	
EV (Canada)	Long-term value: 2(D) mg/m³ respirable	
, ,	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³ (j), A4	

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

- · Engineering controls: No further relevant information available.
- · Breathing equipment:

Dust mask recommended.

Particulate mask should filter at least 99% of airborne particles.

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 7)

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(Contd. of page 6)

· Eye protection:

Contact lenses should not be worn.



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:
Color:
Color:
Codor:
Codor:
Codor threshold:
Powder
Light grey
Codorless
Not determined.

pH-value:
10 - 12 (in solution)

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

• Flammability (solid, gaseous): Product is not flammable.

· Auto-ignition temperature: Not determined.· Decomposition temperature: Not determined.

• **Auto igniting:** Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:
Upper:
Not determined.
Not determined.

Vapor pressure:
Not applicable.

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not applicable.
Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

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Trade name: Patchcrete 1005

(Contd. of page 7)

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Exothermic reaction with acids.

Reacts with certain metals.

Reacts with strong acids and oxidizing agents.

- · Conditions to avoid Avoid acids.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization:

Sensitization possible through skin contact.

Contains Cement, portland, chemicals. May produce an allergic reaction.

- · Subacute to chronic toxicity: No further relevant information available.
- Additional toxicological information:

Irritant

Danger through skin absorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

May cause cancer.

· Carcinogenic categories

· NTP (National Toxicology Program)

14808-60-7 | Quartz (SiO2)

|K

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Probable Routes of Exposure

Inhalation.

Eye contact.

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Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Irritating to respiratory system.

Irritating to skin.

· Repeated Dose Toxicity:

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- DOT, ADR, ADN, IMDG, IATA Not Regulated
- · UN proper shipping name
- · DOT, ADR, ADN, IMDG, IATA Not Regulated

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Trade name: Patchcrete 1005

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Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Not Regulated

· Packing group

· DOT, ADR, IMDG, IATA Not Regulated

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation":

15 Regulatory information	ry information	15 Regulatory
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- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA

· Section 355	(extremely	/ hazardous	substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

14808-60-7 Quartz (SiO2)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

14808-60-7 Quartz (SiO2)

1

TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO2)

A2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)

(Contd. on page 11)

Printing date 05/26/2015 Reviewed on 05/26/2015

Trade name: Patchcrete 1005

(Contd. of page 10)

· State Right to Know Listings

None of the ingredients is listed.

- · Canadian substance listings:
- Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

14808-60-7 Quartz (SiO2)

· Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 05/26/2015 / -

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 1A: Carcinogenicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



Safety Data Sheet

PLANITOP X

Safety Data Sheet dated: 06/23/2020 - version 6

Date of first edition: 05/22/2015

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: PLANITOP X

Recommended use of the chemical and restrictions on use

Recommended use: Mortar Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico) 1144 East Newport Center Drive 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888 Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION







Classification of the chemical

Skin Corr. 1A Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1 May cause an allergic skin reaction.

Carc. 1A May cause cancer if inhaled.

Repr. 1B May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

STOT RE 1 Causes damage to organs through prolonged or repeated exposure if inhaled.

Label elements

Pictograms and Signal Words



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H350 May cause cancer if inhaled.

H360 May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Date 6/30/2020 Production Name PLANITOP X Page n. 1 of 9

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER. P310 P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see supplementary instructions on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	Ident. Numb.	Classification	Registration Number
25-50 %	Silica Sand	CAS:14808-60-7	STOT RE 1, H372; Carc. 1A, H350	
10-20 %	Portland cement	CAS:65997-15-1	STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Corr. 1A, H314	
0.1-0.25 %	Lithium carbonate	CAS:554-13-2	Acute Tox. 4, H302; Eye Irrit. 2A, H319; Repr. 1B, H360	

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Ervthema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Date 6/30/2020 Production Name PLANITOP X Page n. 2 of 9

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A. Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Production Name

Control parameters

Date

6/30/2020

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term 3 ppm	Short Term mg/m3	Term	Behaviour	Note
Silica Sand	ACGIH			0.025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
Portland cement	OSHA			15					
	OSHA			5					
	ACGIH			1					A4 - Not Classifiable as a Human Carcinogen;pulmonary

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PLANITOP X

ACGIH 1

A4 - Not Classifiable as a Human Carcinogen; pulmonary

Carcinogen; pulmonary function; respiratory symptoms; asthma

MAK AUSTRIA 5 MAK SWITZERLAND 5

Appropriate engineering controls: N.A. **Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Solid

Appearance and colour: Powder Grey

Odour: cement like Odour threshold: N.A.

pH: N.A.

pH in water dispersion: 11.50

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: Not Applicable Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 2.15 g/cm3
Solubility in water: dispersible

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

Other information

Substance Groups relevant properties N.A.

Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Date 6/30/2020 Production Name PLANITOP X Page n. 4 of 9

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Silica Sand a) acute toxicity LD50 Oral Rat = 500 mg/kg

Lithium carbonate a) acute toxicity LD50 Oral Rat = 525 mg/kg

LC50 Inhalation Rat > 2.17 mg/l 4h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Silica Sand Group 1

Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component Ident. Numb. Ecotox Infos

Silica Sand CAS: 14808-60-7 a) Aquatic acute toxicity: LC50 carp > 10000.00000 mg/L 72h

Lithium carbonate CAS: 554-13-2 a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 30.3 mg/L 96h

ECHA

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Date 6/30/2020 Production Name PLANITOP X Page n. 5 of 9

Mobility in soil

NΑ

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

ADR-UN number: N.A. DOT-UN Number: N.A. IATA-Un number: N.A. IMDG-Un number: N.A.

UN proper shipping name

ADR-Shipping Name: N.A.
DOT-Proper Shipping Name: N.A.
IATA-Technical name: N.A.
IMDG-Technical name: N.A.

Transport hazard class(es)

ADR-Class: N.A.
DOT-Hazard Class: N.A.
IATA-Class: N.A.
IMDG-Class: N.A.

Packing group

ADR-Packing Group: N.A. DOT-Packing group: N.A. IATA-Packing group: N.A. IMDG-Packing group: N.A.

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA) :

N.A.

Sea (IMDG):

N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Silica Sand is listed in TSCA Section 8b

Portland cement is listed in TSCA Section 8b

Lithium carbonate is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Date 6/30/2020 Production Name PLANITOP X Page n. 6 of 9

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

Lithium carbonate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

No substances listed

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand Listed as carcinogen

Lithium carbonate Listed as reproductive toxicant

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Silica Sand

Portland cement

Lithium carbonate

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silica Sand

Portland cement

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Silica Sand

Portland cement

Lithium carbonate

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

No substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

Description

No substances listed

16. OTHER INFORMATION

C-4-

Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H350	May cause cancer if inhaled.

Date 6/30/2020 Production Name PLANITOP X Page n. 7 of 9

H360 May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 6/23/2020 - version 6

Product code: 2709

Additional classification information



HMIS Health: 2 = Moderate

HMIS Health - Is health hazard chronic? Yes HMIS Flammability: 0 = Not Combustible

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves, dust respirator

NFPA Health: 2 = Moderate

NFPA Flammability: 0 = Not Combustible

NFPA Reactivity: 0 = Minimal NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

 $\label{lem:GefStoffVO: Ordinance on Hazardous Substances, Germany.}$

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION

Date 6/30/2020 Production Name PLANITOP X Page n. 8 of 9

- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION

Date 6/30/2020 Production Name PLANITOP X Page n. 9 of 9

Rapid Set

SAFETY DATA SHEET

1. Identification

Product identifier Rapid Set Wunderfixx

Other means of identification

703010050, 703011900, 703020002, 703020009, 703040050, 703990002, 703990009 Product code

Recommended use Industrial use. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name CTS Cement Manufacturing Corporation

Address 12442 Knott Street

Garden Grove, CA 92841

United States 1-800-929-3030

Telephone E-mail info@ctscement.com

Contact person Safety Officer

Emergency telephone

1-800-929-3030 (8 AM - 5 PM)

number

2. Hazard(s) identification

Not classified. **Physical hazards**

Skin corrosion/irritation **Health Hazards** Category 2

> Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2

Specific Target Organ Toxicity,

Single Exposure

Not classified.

Category 3 respiratory tract irritation

Specific Target Organ Toxicity,

Repeated Exposure

Category 2 (Lungs)

OSHA defined hazards

Label elements



Danger Signal word

Hazard statement Causes skin irritation. Causes serious eye damage. Suspected of causing cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and

wash before reuse. If exposed or concerned: Get medical advice/attention.

Keep container tightly closed. Store in dry location. Storage

Revision date: 19-November-2018

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Version #: 02

None known.

Rapid Set Wunderfixx SDS US

Issue date: 19-November-2018

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3. Composition/information on ingredients

Mixtures Chemical name	CAS number	%
Calcium Sulfoaluminate	960375-09-1	20-40
Portland Cement	65997-15-1	15-35
Smectite Clay	12199-37-0	0-2
Limestone	1317-65-3	20-50
Vinyl Acetate-Ethylene Copolymer	N/A	0-10
Iron Oxide	12227-89-3	0-5
Silica (Quartz) Crystalline	14808-60-7	<0.1

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions.

Ingestion

Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Rapid Set Wunderfixx SDS US

2/8

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions 7. Handling and storage

Avoid discharge into drains or water courses.

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in dry location. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form	
Silica quartz (CAS 14808-60-7)	PEL	5 gm/m3	Respirable fraction	_
		15 mg/m3	Total dust.	

US. ACGIH Threshold Limit Values

Version #: 02 Revision date: 19-November-2018

Components	Туре	Value	Form	
Rapid Set Wunderfixx	_	_		SDS US

Issue date: 19-November-2018

Bedrock Concrete SDS Manual Page 378 of 564

Vinyl acetate (CAS STEL 15 ppm 108-05-4) **TWA** 10 ppm TWA 0.025 mg/m3 Respirable fraction Silica quartz (CAS 14808-60-7)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Vinyl acetate (CAS 108-05-4)	Ceiling	15 mg/m3	
,		4 ppm	
Silica quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower

must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear safety glasses or safety goggles unless full face respirator is in use. Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

(%)

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical

surveillance requirements.

9. Physical and chemical properties

Appearance

Solid. Physical state **Form** Powder. Color Gray. Low. Odor

Odor threshold Not available. 11 - 12 when wet nН Melting point/freezing point Not applicable. Initial boiling point and boiling Not applicable.

range

Flash point Not applicable. **Evaporation rate** Not applicable. Non combustible. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower Rapid Set Wunderfixx SDS US

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Flammability limit - upper

(%)

Not applicable.

Not applicable.

Vapor pressureNot applicable.Vapor densityNot applicable.Relative density2.7-3.1@ 20°C

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not applicable.

Auto-ignition temperatureNot applicable.Decomposition temperature2462 °F (1350 °C)ViscosityNot applicable.

Other information

Bulk density 60 lb/ft³ VOC (Weight %) 0 g/l

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidAvoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. Prolonged contact with wet cement/mixture may cause burns.

Eye contact Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.

Ingestion Swallowing may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation.

Coughing. Discomfort in the chest. Shortness of breath. Skin irritation.

Information on toxicological effects

Acute toxicity May cause respiratory irritation. Test Results

Components Species

Vinyl acetate (CAS 108-05-4)

Acute

Oral 2920 mg/kg

LD50 Rat

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Version #: 02

Respiratory sensitization No data available.

Skin sensitization No data available.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

Revision date: 19-November-2018

Rapid Set Wunderfixx SDS US

Issue date: 19-November-2018

IARC Monographs. Overall Evaluation of Carcinogenicity

Vinyl acetate (CAS 108-05-4) 2B Possibly carcinogenic to humans.

Silica, quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Silica, quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity No data available.

Specific target organ toxicity - No data available.

single exposure

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazardDue to the physical form of the product it is not an aspiration hazard.

Chronic effects No data available.

12. Ecological information

EcotoxicityThe product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Vinyl acetate (CAS 108-05-4) 0.73

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Rapid Set Wunderfixx

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Vinyl acetate (CAS 108-05-4) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name **CAS** number Reportable **Threshold** Threshold Threshold

planning quantity, planning quantity, quantity planning quantity

lower value upper value

Vinyl acetate 108-05-4

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Vinyl acetate 108-05-4 <=0.5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Vinyl acetate (CAS 108-05-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Vinyl acetate (CAS 108-05-4)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Vinyl acetate (CAS 108-05-4) Silica, quartz (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Vinyl acetate (CAS 108-05-4) Silica, quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Vinyl acetate (CAS 108-05-4)

Silica, quartz (CAS 14808-60-7)

US. Rhode Island RTK

Vinyl acetate (CAS 108-05-4)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Silica, quartz (CAS 14808-60-7)

⚠ WARNING

Revision date: 19-November-2018

CANCER and REPRODUCTIVE HARM - www.P65Warnings.ca.gov

International Inventories

Version #: 02

country(s).

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

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16. Other information, including date of preparation or last revision

Issue date 19-November-2018
Revision date 19-November-2018

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Version #: 02

Revision date: 19-November-2018

HMIS® ratings Health: 3*

Flammability: 0 Physical hazard: 0

Disclaimer CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this

information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the cheet was written based on the best knowledge and experience.

use. The information in the sheet was written based on the best knowledge and experience

currently available.

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Version SDS Number: **Revision Date:** 1.3 10/17/2017 000000604596

SECTION 1. IDENTIFICATION

Product name SikaQuick®-1000

Manufacturer or supplier's details

Company name : 601, avenue Delmar

Canada

Pointe-Claire, QC H9R 4A9

Sika Canada Inc. www.sika.ca

Telephone (514) 697-2610 / 1 (800) 933-7452

Telefax : (514) 694-2792

Health and Safety Services's : ehs@ca.sika.com

e-mail address

CANUTEC (collect) (613) 996-6666 (24 hours) Emergency telephone

Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1C

Serious eye damage : Category 1

Skin sensitization : Category 1

Carcinogenicity (Inhalation) : Category 1A

Specific target organ systemic toxicity - single

exposure

: Category 3 (Respiratory system)

Specific target organ

systemic toxicity - repeated

exposure

: Category 1 (Lungs)

GHS label elements

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Hazard pictograms







Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H350i May cause cancer by inhalation.

H372 Causes damage to organs (Lungs) through prolonged or

repeated exposure.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

Supplemental information

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO2) <5µm	14808-60-7	>= 30 - < 40
Quartz (SiO2)	14808-60-7	>= 30 - < 40
Portland cement	65997-15-1	>= 10 - < 20

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

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Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

: Health injuries may be delayed.

corrosive effects irritant effects sensitizing effects carcinogenic effects

Cough

Respiratory disorder Allergic reactions

Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause cancer by inhalation.

Causes damage to organs through prolonged or repeated

exposure.

Causes severe burns.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Avoid breathing dust.

Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Advice on safe handling : Avoid formation of respirable particles.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Prevent unauthorized access.

Store in original container. Keep in a well-ventilated place. Observe label precautions.

Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) <5µm	14808-60-7	TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWAEV (respirable	0.1 mg/m3	CA QC OEL

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		dust)		
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
Quartz (SiO2)	14808-60-7	TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWAEV (respirable dust)	0.1 mg/m3	CA QC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
Portland cement	65997-15-1	TWA	10 mg/m3	CA AB OEL
		TWAEV (respirable dust)	5 mg/m3	CA QC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA (Respirable)	1 mg/m3	CA BC OEL
		TWA (Respirable fraction)	1 mg/m3	ACGIH
calcium sulfate	7778-18-9	TWA (Inhalable)	10 mg/m3	CA BC OEL
		TWAEV (respirable dust)	5 mg/m3	CA QC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA (Inhalable fraction)	10 mg/m3 (Calcium)	ACGIH
		TWA (Inhalable	10 mg/m3 (Calcium)	ACGIH

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fraction)

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

Avoid breathing dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : gray

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Odor : odorless

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : ca. 2.84 g/cm3 (23 °C (73 °F) ())

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

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Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

Product:

Remarks: Product contains Portland cement which contains a chromate reducing agent. If the storage conditions are not appropriate (exposure to humidity) or the storage period is exceeded, the effectiveness of the reducing agent can be diminished prematurely and the product may become skin sensitizing.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) <5µm 14808-60-7

Quartz (SiO2) 14808-60-7

NTP Known to be human carcinogen

Quartz (SiO2) <5µm 14808-60-7

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Quartz (SiO2) 14808-60-7

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological

information

: Do not empty into drains; dispose of this material and its

container in a safe way.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

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SECTION 14. TRANSPORT INFORMATION

Domestic regulation

TDG (road/train)

Not dangerous goods

International Regulations

IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Revision Date : 10/17/2017

Prepared by : R & D of Sika Canada Inc.

Notice to Reader:

The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

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Full text of other abbreviations





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ADR	Accord ouropéon rolatif au trans	enort international des marchandises			
ADN	Dangereuses par Route	Accord européen relatif au transport international des marchandises			
CAS	Chemical Abstracts Service				
DNEL	Derived no-effect level				
EC50	Half maximal effective concentra	ation			
GHS	Globally Harmonized System				
IATA	International Air Transport Asso	ciation			
IMDG	International Maritime Code for Dangerous Goods				
LD50		of a material, given all at once, which			
	causes the death of 50% (one h				
LC50	,				
	kills 50% of the test animals dur				
MARPOL	International Convention for the as modified by the Protocol of 1	Prevention of Pollution from Ships, 1973 978			
OEL	Occupational Exposure Limit				
PBT	Persistent, bioaccumulative and	toxic			
PNEC	Predicted no effect concentration	n			
REACH		of the European Parliament and of the			
		oncerning the Registration, Evaluation,			
		Chemicals (REACH), establishing a			
	European Chemicals Agency				
SVHC	Substances of Very High Conce				
vPvB	Very persistent and very bioaccu	umulative			

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Not established

MATERIAL SAFETY DATA SHEET

Product name: CC 410 EP Epoxy Skidproofer

Description: Part A - Polyamide hardener for anti-skid epoxy **Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS	AND EXP	OSURE I	LIMITS
--------------------	----------------	---------	---------------

Ingredients:	CAS Number:	TLV:	PEL:	STEL:
Tetraethylene pentamine	00112-57-2	NE	NE	NE
Ethylenediamine	00107-15-3	10 ppm	10 ppm	NE
Pentaethylene hexamine	04067-16-7	NE	NE	NE
1-methoxy-2-propanol	00107-98-2	100 ppm	100 ppm	150 ppm
Diethylene triamine	00111-40-0	1ppm (skin)	NE	NE
Pigment	varies with color	NA	NA	NA

Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. **STEL** = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable. A "**skin**" notation indicates exposure should be controlled for the cutaneous routes including the mucous membranes, eyes, and skin. Airborne exposures as well as direct contact must be considered.

PHYSICAL DATA

Amine odor **Appearance:** Low viscosity liquid. Odor: Vapor Pressure: Vapor Density: (air = 1) Not determined Not applicable **Boiling Point:** 212° F **VOC Content:** 144 g/l **Evaporation Rate: Solubility in Water: Emulsifies** Not applicable

FIRE AND EXPLOSION HAZARD DATA

pH:

Flash Point / Method: >200° F / Seta flash Flammable Limits: Not applicable

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog.

Special Fire Fighting

A self-contained breathing apparatus should be worn when fighting fires involving

1.2

Procedures: chemicals.

Unusual Fire and Explosion Thermal decomposition and combustion products can be formed.

Hazards:

Specific Gravity:

REACTIVITY DATA

Stability: Stable. Hazardous Polymerization: Will not occur.

Incompatibility: Strong oxidizers, peroxides, acids.

Decomposition Products: Thermal decomposition can yield CO, CO₂, aldehydes, and acids.

Conditions to Avoid: Excessive heat for prolonged periods of time. Epoxy resins in uncontrolled amounts.

HEALTH HAZARD DATA

Known Hazards: Eye, skin, and respiratory irritation.

Signs and Symptoms of

Exposure:

Eye and skin irritation. Respiratory difficulty, nausea, dizziness.

Carcinogenicity: No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

Routes of Exposure:

Dermal. Inhalation

Medical Conditions

Aggravated by Exposure:

Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:

Immediately flush with plenty of water. Call a physician if symptoms occur.

Skin:

Wash with soap and water. Contaminated clothing should be laundered before reuse.

Inhalation:

Move victim to fresh air. Call a physician is symptoms persist.

Ingestion:

If conscious, give plenty of water to drink. Seek medical attention. Do not induce vomiting unless directed by a physician. Never give anything by mouth to an unconscious person.

Other:

Referral to a physician is recommended if there is any question about the seriousness of

the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:

General (natural or mechanically induced fresh air movements).

Eye Protection:

Splash-proof chemical goggles recommended. Safety glasses with side-shields at a

minimum.

Skin Protection:

Cloth gloves are suitable; impermeable (neoprene or rubber) gloves recommended.

Respiratory Protection:

None normally required with adequate ventilation as noted above. Use a NIOSH-approved organic vapor cartridge respirator when working in areas with little or no air movement.

Never enter a confined space unless wearing an appropriate air-supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:

Use with adequate ventilation. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Store in a cool dry place. Keep from freezing. Store below 100° F. Keep

container closed when not in use.

Spill Procedures:

Remove spillage with absorbent material and dispose in accordance with federal, state,

and local regulations.

REGULATORY INFORMATION

Hazard Communication:

This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health 1, Flammability 0, Reactivity 1, PPE B

DOT Shipping Name:

reality 1, 1 laminability 0, reductivity 1, 1

DOT Shipping Name:

Not regulated

IATA / ICAO Shipping Name:

Not regulated

TSCA Inventory Status:

Chemical components listed on TSCA inventory.

SARA Title III, Section 313:

This product does not contain any toxic chemicals which are subject to reporting under Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR

Part 372.

EPA Waste Code(s):

Not regulated by EPA as a hazardous waste.

Waste Disposal Methods:

Consult with regulatory agencies or your corporate personnel for disposal methods that

comply with local, state, and federal safety, health and environmental regulations.

DESCRIPTION: Part B – Epoxy resin

INGREDIENTS AND EXPOSURE LIMITS						
Ingredients:	CAS Number:	TLV:	PEL:	STEL:		
Modified diglycidyl ether of Bisphenol A	25068-38-6	NE	NE	NE		
Alkyl alycidyl ether	68609-97-2	NE	NE	NE		

Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. **STEL** = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable.

Limit. NE = None Established. NA = Not Applicable.							
PHYSICAL DATA							
Appearance:	Low viscosity clear liquid	Slight odor					
Boiling Point:	200° F	Vapor Pressure:	Not applicable				
Vapor Density:	Not determined	VOC Content:	None				
Evaporation Rate:	Not determined	Solubility in Water:	Nil				
Specific Gravity:	1.1	Not determined					
FIRE AND EXPLOSION HAZARD DATA							
Flash Point / Method:	>200° F / Seta flash	>200° F / Seta flash Flammable Limits: Not applicable					
Extinguishing Media:	Not applicable	Not applicable					
Special Fire Fighting Procedures:	A self-contained breathing apparatus should be worn when fighting fires involving chemicals.						
Unusual Fire and Explosion Hazards: Thermal decomposition and combustion products can be formed. See below.							
	REACTIVITY	/ DATA					
Stability:	Stable.	Hazardous Polymerization:	Will not occur.				
Incompatibility:	Strong oxidizers, peroxides, acids.						

REACTIVITY DATA							
Stability:	Stable.	Hazardous Polymerization:	Will not occur.				
Incompatibility:	Strong oxidizers, peroxides, ac	Strong oxidizers, peroxides, acids.					
Hazardous Decomposition Products:	Thermal decomposition can yie	Thermal decomposition can yield CO, CO ₂ , aldehydes and acids.					
Conditions to Avoid:	Excessive heat for prolonged generate large amounts of heat	periods of time. Reactions w.	th some curing agents can				

HEALTH HAZARD DATA				
Known Hazards:	Eye and skin irritation. Sensitization.			
Routes of Exposure:	Dermal. Inhalation.			
Signs and Symptoms of Exposure:	Eyes – Irritation. Corneal injury is not likely. Skin - Can cause allergic skin reactions (e.g. rash, redness, itching) in susceptible individuals. Inhalation - No effects expected. Heated vapors can cause irritation.			
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.			
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.			
	EMEDICENCY AND EIDET AID DROCEDURES			

EMERGENCY AND FIRST AID PROCEDURES				
Eyes:	Immediately flush with plenty of water. Call a physician.			
Skin:	Wash with soap and water. Launder contaminated clothing before reuse.			
Inhalation:	If ill effects occur, move victim to fresh air. Call a physician if symptoms persist.			
Ingestion:	If conscious, give plenty of water to drink. Seek medical attention. Do not induce vomiting unless directed by a physician. Never give anything by mouth to an unconscious person.			

Other:

Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:

General, i.e. natural or mechanically induced fresh air movements.

Eye Protection:

Splash-proof chemical goggles recommended while mixing. Safety glasses with side

shields at a minimum.

Skin Protection:

Gloves recommended. Cotton or impervious (neoprene or rubber).

Respiratory Protection:

None normally required with adequate ventilation as noted above. Use a NIOSH-approved organic vapor cartridge respirator when working in areas with little or no air movement. Never enter a confined space unless wearing an appropriate air-supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing

Precautions:

Use with adequate ventilation. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Store in a cool dry place. Keep from freezing. Store below 100° F. Keep container closed when not in use.

Spill Procedures:

Remove spillage with absorbent material and dispose in accordance with federal, state, and local regulations.

REGULATORY INFORMATION

This MSDS has been prepared in accordance with the federal OSHA Hazard **Hazard Communication:**

Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health 1, Flammability 0, Reactivity 1, PPE B

DOT Shipping Name: Non-regulated. **IATA / ICAO Shipping Name:** Non-regulated.

TSCA Inventory Status: Chemical components listed on TSCA inventory.

SARA Title III, Section 313: This product does not contain any toxic chemicals which are subject to reporting under

Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s): Not regulated by EPA as a hazardous waste.

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that

comply with local, state, and federal regulations.

CC 410 EP Epoxy Skidproofer

DESCRIPTION: Part C – Aggregate for CC 410 EP epoxy mortar

INGREDIENTS AND EXPOSURE LIMITS

Ingredients: **CAS Number:** TLV: PEL: STEL:

 $0.1 \, \text{mg/m}^3 \, (R)$ $0.1 \, \text{mg/m}^3 \, (R)$ Silicon Dioxide (sand) 14808-60-7 NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure

Limit. **NE** = None Established. **NA** = Not Applicable. **(R)** indicates as "respirable" dust.

PHYSICAL DATA

Appearance: White or tan sand granules. Odor: None.

Boiling Point: Vapor Pressure: Not applicable. Not applicable.

VOC Content: Vapor Density: Not determined. None. **Evaporation Rate:** Not applicable. **Solubility in Water:** Nil.

Specific Gravity: 2.6 Not determined. :Ha

FIRE AND EXPLOSION HAZARD DATA

Flash Point: Flammable Limits: Not applicable. Not applicable.

Extinguishing Media: Not applicable. **Special Fire Fighting** None known.

Procedures:

Unusual Fire and Explosion

Hazards:

None known.

REACTIVITY DATA

Stability: Stable. **Hazardous Polymerization:** Will not occur.

Incompatibility: Strong oxidizing agents.

Hazardous Decomposition

Products:

None expected.

Conditions to Avoid: Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese

trioxide, and oxygen trifluoride.

HEALTH HAZARD DATA

Known Hazards: None expected from normal use of this product. Excess exposure to dusts by inhalation for

extended periods of time can lead to the development of pulmonary diseases including

pneumoconiosis such as silicosis.

Routes of Exposure: Dermal, Inhalation.

Signs and Symptoms of

Exposure:

Eyes - Mechanical injury can occur from rubbing the eyes due to the abrasive nature of sand. Skin - Prolonged and repeated exposure to the hands can lead to drying of the skin and dermatitis. Inhalation - Excessive exposure to dusts can lead to breathing difficulty.

Carcinogenicity: IARC classifies crystalline silica (quartz sand) as a Gp I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via

inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. The use of this product does not pose a cancer risk; however, wearing a NIOSHapproved dust mask in any dusty situations will reduce the potential for exposure to silica.

Medical Conditions Eye, skin, and respiratory conditions.

Aggravated by Exposure:

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with plenty of water. Call a physician.

Skin: Wash with soap and water.

Inhalation: If ill effects occur, move victim to fresh air. Call a physician if symptoms persist.

Ingestion: Not normally a route of exposure. Give plenty of water to drink. Seek medical attention. Do

not induce vomiting unless directed by a physician.

Other: Referral to a physician is recommended if there is any question about the seriousness of

the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: General, i.e. natural or mechanically induced fresh air movements.

Eye Protection: Safety glasses with side shields as a minimum. Splash-proof chemical goggles

recommended while mixing parts A and B.

Skin Protection: Cotton gloves recommended to keep hands from defatting (drying out).

Respiratory Protection: None normally required with adequate ventilation as noted above. Use a NIOSH-approved

dust mask when working in areas where dust is being generated at or near the PEL/TLV.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing

Precautions:

Avoid generating dust. Avoid contact with eyes, skin, or clothing. Wash hands after

handling. Store in a dry location.

Spill Procedures: Sweep up and discard.

REGULATORY INFORMATION

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard

Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health 2, Flammability 0, Reactivity 0, PPE A

DOT Shipping Name: Non-regulated.

IATA / ICAO Shipping Name: Non-regulated.

TSCA Inventory Status: Chemical components listed on TSCA inventory.

SARA Title III, Section 313: This product does not contain any toxic chemicals which are subject to reporting under

Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s): Not regulated by EPA as a hazardous waste.

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that

comply with local, state, and federal regulations.

CONTACTS

 Customer Service:
 1 800 879 8000
 Technical Service:
 1 800 879 8000

Health / Safety: 1 800 879 6000 Jerry Metcalf (x6704)

Emergency # (Chem-Trec): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (Other countries)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: DECRA-SEAL™ W/B Part Number: 3465000

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 4/19/2019
Product Use: 4/19/2019
Concrete Sealer

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

PRECAUTIONARY STATEMENTS

Avoid direct contact/breathing mists.

Wear appropriate personal protective equipment.



	CAS	% by	SARA	Vapor Pressure	LEL
Chemical Name:	Number	Weight	<u>313</u>	(mm Hg@20°C)	(@25°C)
1. N-Methyl Pyrolidone	872-50-4	1-5	N/E	0.29	1.2
2. Ethylene Glycol Monobutyl Ether	111-76-2	1-5	Yes	0.66	1.1

N/E = Not Established

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Direct contact may result in mild to moderate irritation. Corneal injury is unlikely.

SKIN CONTACT: Direct contact may cause mild skin irritation. Prolonged/repeated contact may result in skin irritation and dermatitis.

INHALATION: Exposure to mists/sprays may cause irritation of the respiratory tract.

INGESTION: Not anticipated to be an exposure route. If ingested, irritation of the gastrointestinal tract may occur. Signs of central

nervous system depression (headache, fatigue, drowsiness, dizziness, and loss of coordination) may occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: > 200 °F

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Full fire fighting gear with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate hazard area of unauthorized personnel. Eliminate source of leak if safe to do so.

Dike/contain. Place spill materials in sealed/marked containers for proper disposal.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.
SAFE STORAGE: Keep containers closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

	OSHA				ACGIH			
Chemical Name:	<u>PEL</u>	PEL/CEILING	PEL/STEL	<u>SKIN</u>	<u>TWA</u>	TLV/CEILING	TLV/STEL	<u>SKIN</u>
1. N-Methyl Pyrolidone	N/E	N/E	N/E	No	100 PPM	N/E	N/E	No
2. Ethylene Glycol Monobutyl Ether	50 PPM	N/E	N/E	Yes	20 PPM	N/E	N/E	Yes
						N/E: Not Established		

ENGINEERING CONTROLS: None required under normal conditions of use. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, chemical-resistant gloves.

SAFETY DATA SHEET

Date of Preparation: 4/19/19 Page 2 of 2 3465000

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

MELTING/FREEZING POINT: N/D

BOILING POINT: 212° F (for water)VAPOR DENSITY: >1 (air=1)% VOLATILE BY VOLUME: N/EEVAPORATION RATE: <1 (ether=1)</td>pH LEVEL: 8.24% VOLATILE BY WEIGHT: N/EWEIGHT PER GALLON: 8.60PRODUCT APPEARANCE: Opaque LiquidVOC CONTENT: 204 g/L

 FLASH POINT: See Section 5
 FLAMMABILITY: N/D
 UEL/LEL: N/D

 VAPOR PRESSURE: N/D
 RELATIVE DENSITY: N/D
 SOLUBILITY: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D N/D: Not Determined

ODOR THRESHOLD: N/D

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing/shoes. Cleanse affected areas with mild soap and water. If irritation persists,

seek medical attention.

ODOR: Mild Organic

INHALATION: Remove victim from exposure source. Treat symptomatically.

INGESTION: Dilute with two glasses of water unless the victim is unconscious or very drowsy. If vomiting spontaneously occurs, keep the victim's head below the hips to prevent lung aspiration. Seek immediate medical attention.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, reddening, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing liver, kidney, and lung conditions may be aggravated by exposure to this product. **OTHER HEALTH EFFECTS:** Target organs include lungs, liver, and kidneys. Ethylene Glycol Monobutyl Ether has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E **OTHER ADVERSE EFFECTS:** N/E

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste for disposal purposes.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Non-hazardous.

UN NUMBER: None. HAZARD CLASS: None. PACKING GROUP: None.

UN PROPER SHIPPING NAME: None.

ENVIRONMENTAL HAZARDS: None recognized.

BULK TRANSPORTATION INFORMATION: Not applicable. Product is not shipped in bulk configuration.

SPECIAL PRECAUTIONS: None recognized.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 4/19/19
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



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1. Identification

Product identifier used on the label

MasterProtect H 400

Recommended use of the chemical and restriction on use

Recommended use*: for industrial and professional users

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: sealant

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Skin Corr./Irrit. 2 Skin corrosion/irritation

Label elements

Pictogram:



^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Signal Word: Warning

Hazard Statement:

H315 Causes skin irritation.

Precautionary Statements (Prevention):

P280 Wear protective gloves.

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Labeling of special preparations (GHS):

Product contains the following components and may cause an allergic skin reaction: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

 CAS Number
 Weight %
 Chemical name

 2943-75-1
 >= 20.0 - <= 50.0%</td>
 Triethoxycaprylylsilane

 55965-84-9
 >= 0.0 - < 0.01%</td>
 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one (3:1)

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

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If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions

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Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of

contaminated material as prescribed. For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Protect from temperatures below: 5 °C

The packed product must be protected from temperatures below the indicated one.

Protect from temperatures below: 40 °F

The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

Body protection:

light protective clothing

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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9. Physical and Chemical Properties

Form: liquid

Odour: mild, alcohol-like

Odour threshold: No applicable information available.

Colour: off-white pH value: 7 - 8

Melting temperature: The product has not been tested.

Boiling point: 208 °F

Sublimation point: No applicable information available. Flash point: No flash point - Measurement made

up to the boiling point.

Flammability of Aerosol not applicable, the product does not

Products: form flammable aerosoles

Autoignition: Study does not need to be conducted. Vapour pressure: The product has not been tested.

Density: 0.99 g/cm3

(20°C)

Relative density: No applicable information available.

Vapour density: Heavier than air.

Partitioning coefficient n- not applicable for mixtures

octanol/water (log Pow):

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: not determined

Viscosity, kinematic: No applicable information available.

Solubility in water: (20 °C)

soluble

Solubility (quantitative): No applicable information available. Solubility (qualitative): No applicable information available.

Evaporation rate: not determined

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Based on available Data, the classification criteria are not met.

Inhalation

No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation.

Sensitization

Assessment of sensitization: The product contains a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) (CAS-No.:55965-84-9). The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

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Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Based on available Data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

The polymer component of the product is poorly biodegradable.

Bioaccumulative potential

Assessment bioaccumulation potential

Discharge into the environment must be avoided.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

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Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHANOL IN ALCOHOLIC BEVERAGES, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 0 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2018/08/16

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our

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operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. **END OF DATA SHEET**



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1. Identification

Product identifier used on the label

MasterProtect H 440HZ

Recommended use of the chemical and restriction on use

Recommended use*: Product for construction chemicals Recommended use*: for industrial and professional users

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Flam. Liq. 2 Flammable liquids Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

STOT SE 3 (Vapours may cause Specific target organ toxicity — single exposure

drowsiness and dizziness.)

Label elements

^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Pictogram:



Signal Word: Danger

Hazard Statement:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area. P243 Take action to prevent static discharges.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P260 Do not breathe dust/gas/mist/vapours.

P242 Use only non-sparking tools.

P240 Ground and bond container and receiving equipment.

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

reathing.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder

or water spray for extinction.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Weight % **Chemical name** CAS Number >= 50.0 - < 75.0% 2-Propanol 67-63-0

2943-75-1 >= 25.0 - < 50.0% Triethoxycaprylylsilane

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

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Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours, nitrogen oxides, fumes/smoke, carbon black, carbon oxides See MSDS section 10 - Stability and reactivity.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Product is not explosive.

Conditions for safe storage, including any incompatibilities

Observe VCI storage rules.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

2-Propanol OSHA PEL PEL 400 ppm 980 mg/m3; STEL value 500

ppm 1,225 mg/m3 ; TWA value 400 ppm 980

mg/m3;

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> ACGIH TLV STEL value 400 ppm; TWA value 200 ppm;

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid Odour: alcohol-like

Odour threshold: No applicable information available.

Colour: pH value: (100 %(m))

not applicable

Melting point: No applicable information available.

Boiling point: 82.22 °C

180 °F

Sublimation point: No applicable information available.

Flash point: 54 °F 12 °C

not determined

Flammability: Lower explosion limit: 2.5 %(V) Upper explosion limit: 12.0 %(V) Autoignition: 398.89 °C 750 °F

Vapour pressure: The product has not been tested.

Density: approx. 1.0 g/cm3

(20°C)

No applicable information available. Relative density:

Bulk density: not applicable

Vapour density: No applicable information available. Partitioning coefficient n-No applicable information available. octanol/water (log Pow):

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Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: No applicable information available. Viscosity, kinematic: No applicable information available.

Solubility in water: partly soluble

Solubility (quantitative): No applicable information available. Solubility (qualitative): No applicable information available. Evaporation rate: No applicable information available.

Other Information: If necessary, information on other physical and chemical

parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: No data available.

Oral

No applicable information available.

Inhalation

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No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Assessment of sensitization: The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity

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Aquatic toxicity

Assessment of aquatic toxicity:

Based on available Data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

The polymer component of the product is poorly biodegradable.

Bioaccumulative potential

Assessment bioaccumulation potential

Discharge into the environment must be avoided.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

USDOT

Hazard class: 3
Packing group: II

ID number: UN 1219

Hazard label: 3

Proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

Sea transport

IMDG

Hazard class: 3 Packing group: II

ID number: UN 1219

Hazard label: 3

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Marine pollutant: NO

Proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

Air transport IATA/ICAO

Hazard class: 3 Packing group: II

ID number: UN 1219

Hazard label: 3

Proper shipping name: ISOPROPANOL

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

<u>CAS Number</u> <u>Chemical name</u> 67-63-0 2-Propanol

CERCLA RQ
100 LBSCAS Number
67-63-0Chemical name
2-Propanol

State regulations

State RTK	CAS Number	Chemical name		
PA	67-63-0	2-Propanol		
MA	67-63-0	2-Propanol		
NJ	67-63-0	2-Propanol		

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHANOL IN ALCOHOLIC BEVERAGES, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 3 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2018/10/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in

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a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

FLAMMABLE. SENSITIZER. IRRITANT. Irritating to eyes and skin.

State of matter: liquid Colour: colourless Odour: solvent-like

Potential health effects

Acute toxicity:

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation / corrosion:

Irritating to respiratory system and skin.

Sensitization:

May cause sensitization by skin contact.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity: No reliable data was available concerning repeated dose toxicity.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

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Teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Potential environmental effects

Aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation / bioconcentration:

Discharge into the environment must be avoided.

3. Composition / Information on Ingredients

<u>CAS Number</u> <u>Content (W/W)</u> <u>Hazardous ingredients</u> 80-62-6 >= 60.0 - <= 100.0 % methyl methacrylate

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known

specific antidote.

5. Fire-Fighting Measures

Flash point: 10 °C (DIN 53213-1)

Autoignition: 430 °C

Lower explosion limit: 2.1 %(V) (air) Upper explosion limit: 12.5 %(V) (air)

Flammability: Highly flammable.

Suitable extinguishing media:

dry powder, alcohol-resistant foam

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Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Containers may rocket or explode in heat of fire. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid prolonged inhalation. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

For large amounts: Pump off product.

For residues: Pick up with inert absorbent material (e.g. sand, earth etc.). Correctly dispose of recovered product immediately.

7. Handling and Storage

Handling

General advice:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Provide good room ventilation even at ground level (vapours are heavier than air).

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Storage

General advice:

Keep container tightly closed and in a well-ventilated place. Keep away from heat. Avoid all sources of ignition: heat, sparks, open flame.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

methyl methacrylate OSHA PEL PEL 100 ppm 410 mg/m3 ;

ACGIH TLV TWA value 50 ppm; STEL value 100 ppm;

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Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure., Antistatic apron

General safety and hygiene measures:

Avoid inhalation of dusts/mists/vapours. Avoid contact with the skin, eyes and clothing. Avoid prolonged and/or repeated contact with the skin. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

The product has not been tested.

9. Physical and Chemical Properties

Form: liquid
Odour: solvent-like
Odour threshold: No data available.
Colour: colourless

pH value: (20 °C) not applicable

Melting temperature: approx. -48 °C (1,013 hPa) boiling temperature: approx. 100 °C (1,013 hPa)

Vapour pressure:

Density: approx. 0.97 g/cm3 (20 °C)

Vapour density: not determined

Viscosity, dynamic: approx. 10 mPa.s (20 °C) Solubility in water: (20 °C)

Miscibility with water: (20 °C) partially (e.g. >10% <90%)

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Vapours may form explosive mixture with air. No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Irritation / corrosion

Information on: methyl methacrylate

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Assessment of irritating effects:

Irritating to skin. Not irritating to the eyes.

Sensitization

Information on: methyl methacrylate Assessment of sensitization:

Caused skin sensitization in animal studies.

Repeated dose toxicity

Information on: methyl methacrylate Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence **Biological / Abiological Degradation**

Evaluation: Inherently biodegradable.

The insoluble fraction can be removed by mechanical means in suitable waste

water treatment plants.

Other adverse effects:

There is a high probability that the product is not acutely harmful to aquatic organisms. Do not discharge product into the environment without control. The product has not been tested. The statement has been derived from the properties of the individual components.

Ecological data are not available. Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

TDG

Hazard class: Ш Packing group:

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ID number: UN 1866

Hazard label: 3

Proper shipping name: RESIN SOLUTION

Sea transport

IMDG

Hazard class: 3
Packing group: II

ID number: UN 1866 Hazard label: 3 Marine pollutant: NO

Proper shipping name: RESIN SOLUTION

Air transport

IATA/ICAO

Hazard class: 3
Packing group: II
ID number: UN 1866

Hazard label: 3

Proper shipping name: RESIN SOLUTION

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: B2: Flammable Liquid

D2B: Materials Causing Other Toxic Effects - Toxic

material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:

BASF NA Product Regulations

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BASF HOTLINE (800) 454 - COPE (2673) SDS Prepared on: 2014/03/25

END OF DATA SHEET



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

VOCOMP_®-30 Product: Part Number: 3300-196

Address: 70 Hannant Court Manufacturer: W. R. MEADOWS OF CANADA

Milton, Ontario Canada L9T 5Cl

Telephone: (905) 878-4122 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 8/24/2016

Product Use: Concrete Curing/Sealing Compound

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS HAZARD STATEMENTS | Health | WARNING! |1|

| Flammability | 101 Causes skin irritation.

| Reactivity | PRECAUTIONARY STATEMENTS 101

| Personal Protection | Avoid direct contact.

SECTION 3: HAZARDS COMPONENTS

SARA Vapor Pressure **Chemical Name:** CAS Number % by Weight 313 (mm Hg@20°C) (@25°C)

1. Propylene Glycol Phenyl Ether 770-35-4 1-5 Nο < 1 0.8

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected areas with mild soap and water. Remove contaminated shoes/clothing. If symptoms persist, seek medical attention.

INHALATION: Not expected to be an exposure route as supplied. If respiratory symptoms develop, seek medical attention.

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. Do not induce vomiting. If vomiting spontaneously occurs, prevent lung aspiration. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Product will not flash due to water content. EXTINGUISHING MEDIA: Water fog, foam, dry chemical.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Use appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Avoid direct contact. Dike and contain spilled material. Remove source of spill if safe to do so. Apply absorbent and place clean-up material in sealed/marked containers for proper disposal. Clean-up materials will be classified as nonhazardous waste.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. SAFE STORAGE: Prevent product from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

		OSHA			ACGIH			
<u>Chemical Name:</u> 1. Propylene Glycol Phenyl	PEL	PEL/CEILING	PEL/STEL	<u>SKIN</u>	<u>TWA</u>	TLV/CEILING	TLV/STEL	<u>SKIN</u>
Ether	N/E	N/E	N/E	No	N/E	N/E <i>N/E:</i>	N/E Not establishe	N/E ed

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 100 degrees C VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/E EVAPORATION RATE: <1 (Ether=1) pH LEVEL: 9.7 % VOLATILE BY WEIGHT: 70 WEIGHT PER GALLON: 8.62 PRODUCT APPEARANCE: Opaque Liquid VOC CONTENT: 157 g/L

MELTING/FREEZING POINT: N/D ODOR: None **ODOR THRESHOLD: N/D**

FLASH POINT: See Section 5 FLAMMABILITY: N/D UEL/LEL: N/D **SAFETY DATA SHEET**

Date of Preparation: 8/24/16 Page 2 of 2 3300-196

Section 9 continued

VAPOR PRESSURE: N/D RELATIVE DENSITY: N/D SOLUBILITY: N/D

PARTITION COEFFICENT: N/D AUTOIGNITION TEMPERATURE: N/D DECOMPOSITION TEMPERATURE: N/D VISCOSITY: N/D N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized.

HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild to moderate irritation.

SKIN CONTACT: Direct contact may cause slight skin irritation. Prolonged/repeated contact may result in irritation.

INHALATION: Not anticipated to be an exposure route. **INGESTION:** Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. **AGGRAVATED MEDICAL CONDITIONS:** Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E **OTHER ADVERSE EFFECTS:** None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Solidified product can be landfill disposed. No free liquids.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None. HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized. **BULK TRANSPORTATION INFORMATION:** None.

SPECIAL PRECAUTIONS: Prevent product from freezing.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 8/24/2016
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



Version: 1.0

Revision Date: 08/13/2015

SAFETY DATA SHEET

1. Identification

Material name: DIAMOND-PLATE LIGHT GRAY 50 LB BAG MTO

Material: 162C 50

Recommended use and restriction on use

Recommended use: Cement, Portland, chemicals

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer

Category 1

Category 1

Category 1

Category 2

Category 2

Specific Target Organ Toxicity
Single Exposure

Category 3

Unknown toxicity - Health

Acute toxicity, oral 33.2 %
Acute toxicity, dermal 37.12 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 99.33 %

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 97.07 % environment
Chronic hazards to the aquatic 100 %

environment

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: Causes skin irritation.

Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.

Harmful to aquatic life.

Precautionary Statement: Prevention:

Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-

ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.

Storage: Store locked up. Store in well-ventilated place. Keep container tightly

closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Portland cement	65997-15-1	30 - 60%
Titanium dioxide	13463-67-7	1 - 5%
Aluminum	7429-90-5	0.5 - 1.5%
Aluminum oxide	1344-28-1	0.1 - 1%
Amorphous silica	7631-86-9	0.1 - 1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

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Methods and material for containment and cleaning

up:

Collect spillage in containers, seal securely and deliver for disposal

according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
Portland cement - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
Portland cement - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
Aluminum - Respirable dust as Al	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum - Total dust. - as Al	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)



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Chemical name	type	Exposure Limit Values	Source
Portland cement - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland cement - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland cement	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



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Eye/face protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Powder
Color: Gray
Odor: Odorless

Odor threshold:

pH:

No data available.

Flash Point:

Evaporation rate:

No data available.

No data available.

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

Approximate 5.9

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
Decomposition temperature:
No data available.
Viscosity:
No data available.



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10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

No data available.

Conditions to Avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: Causes skin irritation.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Dermal

Product: No data available.

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.



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Specified substance(s):

Titanium dioxide in vivo (Rabbit, 24 - 72 hrs): Not irritating

Aluminum in vivo (Rabbit, 24 hrs): Not irritating

Aluminum oxide in vivo (Rabbit, 24 hrs): Not irritating

Amorphous silica in vivo (Rabbit, 24 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Titanium dioxide LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality

Aluminum LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.31

mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

Aluminum LC 50 (Water flea (Daphnia magna), 24 h): 3.5 mg/l Mortality

LC 50 (Rotifer (Brachionus calyciflorus), 24 h): > 3 mg/l Mortality LC 50 (Ridged-beak peaclam (Pisidium compressum), 96 h): > 0.4 mg/l

Mortality

LC 50 (Scud (Hyalella azteca), 96 h): > 1 mg/l Mortality LC 50 (Snail (Amnicola limosa), 96 h): > 1 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Titanium dioxide LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental

result

Aluminum LOAEL (Pimephales promelas, 28 d): 11.9 mg/l experimental result

EC 50 (Pimephales promelas, 7 d): 0.695 mg/l experimental result LOAEL (Salvelinus fontinalis, 30 d): 0.169 mg/l experimental result EC 50 (Pimephales promelas, 7 d): 3.999 mg/l experimental result EC 10 (Pimephales promelas, 7 d): 0.726 mg/l experimental result

Aluminum oxide NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability



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Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Aluminum Brook trout (Salvelinus fontinalis), Bioconcentration Factor (BCF): 36 (Flow

through)

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

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None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Portland cement	500 lbs
Titanium dioxide	500 lbs
Aluminum	500 lbs
Aluminum oxide	500 lbs
Amorphous silica	500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Portland cement

Titanium dioxide

US. Massachusetts RTK - Substance List

Chemical Identity

Portland cement

Titanium dioxide



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US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Portland cement Titanium dioxide

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:

Regulatory VOC (less water

and exempt solvent):

0 g/l

VOC Method 310: 0.00 %

Inventory Status:

Australia AICS: One or more components in this product are

not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are



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not listed on or exempt from the Inventory.

16.Other information, including date of preparation or last revision

Revision Date: 08/13/2015

Version #: 1.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



Revision Date: 02/17/2017

SAFETY DATA SHEET

1. Identification

Material name: EUCO-PLATE HD LIGHT GRAY 50 LB BAG MTO

Material: 163C 50

Recommended use and restriction on use

Recommended use: Cement, Portland, chemicals

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1
Skin sensitizer Category 1
Carcinogenicity Category 2
Specific Target Organ Toxicity - Category 3

Category 3

Single Exposure

Target Organs

1. Respiratory tract irritation.

Unknown toxicity - Health

Acute toxicity, oral 32.38 %
Acute toxicity, dermal 99.25 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 99.81 %

or mist

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-

ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.

Storage: Store locked up. Store in well-ventilated place. Keep container tightly

closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*



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Iron oxide	1309-37-1	50 - <100%
Portland cement	65997-15-1	20 - <50%
Titanium dioxide	13463-67-7	1 - <5%
Carbon	7440-44-0	1 - <5%
Silicon	7440-21-3	0.1 - <1%
Manganese	7439-96-5	0.1 - <1%
Aluminum oxide	1344-28-1	0.1 - <1%
Amorphous silica	7631-86-9	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Get medical attention. Destroy or thoroughly clean contaminated shoes.

Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction

develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters



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Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up:

Collect spillage in containers, seal securely and deliver for disposal

according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Wash hands thoroughly after handling. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

contact with cyco, citin, and

Conditions for safe storage,

including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

occupational Exposure	Lilling		T
Chemical Identity	Туре	Exposure Limit Values	Source
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Iron oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)



	T		
	TWA	15 millions of particles per cubic foot of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
		air	
Portland cement - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
Portland cement - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Carbon - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Carbon - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Carbon - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Carbon - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Carbon - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Carbon - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Carbon - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Silicon - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Silicon - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Manganese - Inhalable fraction as Mn	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Manganese - Respirable fraction as Mn	TWA	0.02 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Manganese - Fume as Mn	Ceiling	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum oxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)



Chemical name	Туре	Exposure Limit Values	Source
Iron oxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Dust as Fe	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Fume as Fe	STEL	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Fume as Fe	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Iron oxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Iron oxide - Dust and fume as Fe	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland cement - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland cement - Respirable fraction.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Carbon - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Carbon - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances,



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			Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Carbon - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Carbon - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon - Inhalable fraction.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon - Respirable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Carbon - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Manganese - as Mn	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Manganese - as Mn	TWA	0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Manganese - Fume as Mn	TWA	1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Manganese - Dust as Mn	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Manganese - Fume as Mn	STEL	3 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level.

Eye/face protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.



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Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. Wash

contaminated clothing before reuse. Avoid contact with skin. Contaminated

work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Powder
Color: Gray
Odor: Odorless

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

No data available.

No data available.

Flash Point:

No data available.

No data available.

Evaporation rate:

No data available.

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

No data available.

Approximate 5.9

Solubility(ies)

Solubility in water: Miscible with water.
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.



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Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 104,241.12 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

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Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

No data available. **Product:**

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:



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Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:



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Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Chromium 5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Chromium 5000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Iron oxide	10000 lbs
Portland cement	10000 lbs
Titanium dioxide	10000 lbs
Carbon	10000 lbs
Silicon	10000 lbs
Manganese	10000 lbs
Aluminum oxide	10000 lbs
Amorphous silica	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.



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US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Titanium dioxide Carcinogenic. 09 2011

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Iron oxide

Portland cement

Titanium dioxide

Carbon

US. Massachusetts RTK - Substance List

Chemical Identity

Iron oxide

Portland cement

Titanium dioxide

Carbon

Chromium

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Iron oxide

Portland cement

Titanium dioxide

Carbon

US. Rhode Island RTK

Chemical Identity

Iron oxide

Portland cement

Titanium dioxide

Carbon

International regulations

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable

Kyoto protocol

not applicable

VOC:



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Regulatory VOC (less water and

exempt solvent)

: 0 g/l

VOC Method 310 : 0.00 %

Inventory Status:

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

16.Other information, including date of preparation or last revision



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Version #: 2.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



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Version: 3.0 (30367953/SDS_GEN_CA/EN)

1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

IRRITANT. Irritating to eyes and skin.

State of matter: solid Colour: grey Odour: odourless

Potential health effects

Acute toxicity:

Product may present a nuisance dust hazard. Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties.

Irritation / corrosion:

Causes temporary irritation of the respiratory tract. Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization:

Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-live is unlikely.

Chronic toxicity:

Repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

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Genotoxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

Eye irritation, skin irritation, irritation of the mucous membranes

Potential environmental effects

Aquatic toxicity:

The product gives rise to pH shifts.

Degradation / environmental fate:

Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

3. Composition / Information on Ingredients

CAS NumberContent (W/W)Hazardous ingredients65997-15-1>= 15.0 - <= 40.0 %</td>Cement, portland, chemicals7632-00-0>= 0.1 - <= 1.0 %</td>sodium nitrite

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point: The substance/product is non-combustible.

Flammability: not flammable

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

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Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Product is not combustible or explosive.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.

For residues: Rinse with plenty of water.

7. Handling and Storage

Handling

General advice:

Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

No special precautions necessary.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

Storage incompatibility:

General advice: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

Cement, portland, chemicals OSHA PEL PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3

Total dust ;

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> **ACGIH TLV** TWA value 1 mg/m3 Respirable fraction;

> > The value is for particulate matter containing no asbestos and <1% crystalline silica.

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skincare agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: powder Odour: odourless

Odour threshold: No data available.

Colour: grey

pH value: approx. 12 - 13 (as aqueous suspension)

> 1,000 °C Melting temperature:

boiling temperature: Bulk density:

approx. 1,800 -

2,400 kg/m3

Solubility in water: (20 °C) dispersible Miscibility with water: (20 °C) not soluble

Other Information: If necessary, information on other physical and chemical parameters is

not applicable

indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid humidity.

Substances to avoid:

strong acids

strong bases, strong acids

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Strong bases are formed on the addition of water.

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Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Irritation / corrosion

Information on: Cement, portland, chemicals

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

.....

Carcinogenicity

Information on: sodium nitrite

In long-term studies in rats and mice in which the substance was given by drinking-water, a carcinogenic effect was not observed. Under certain conditions nitrites can enhance the formation of nitrosamines in vivo.

Nitrosamines are carcinogenic in animal studies.

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

Evaluation:

Experience shows this product to be inert and non-degradable.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Container disposal:

Completely emptied packagings can be given for recycling.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

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Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D1A: Materials Causing Immediate and Serious Toxic

Effects - Very toxic material

D2B: Materials Causing Other Toxic Effects - Toxic

material





THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:

BASF NA Product Regulations

BASF HOTLINE (800) 454 - COPE (2673)

SDS Prepared on: 2014/02/17

END OF DATA SHEET

Safety Data Sheet



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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecPrep SB Part A

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Epoxy bonding adhesive

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108

Business Phone: (816) 968-5600

Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Last Revision: March 9, 2015
Date of Current Revision: July 1, 2018

SECTION 2 – HAZARDS IDENTIFICATION

US DOT Symbols: Not Regulated

EU and GHS Symbols:

Signal Word: Warning

Components Contributing to Classification: Bisphenol-A-(epichlorohydrin) epoxy

resin(number average molecular weight ≤ 700)

2.2 Label Elements:

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation. **Hazard Statements:**Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects. Contains epoxy constituents. May produce an

allergic reaction.

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out

of the workplace.

Wear protective gloves/protective clothing/eye

protection/face protection.

Response Statements: IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.



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If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical

advice/attention.

If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before

reuse.

Storage Statements: Store in a well-ventilated place. Keep container tightly

closed.

Disposal Statements: Dispose of contents/container in accordance with

local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal

compounds or formaldehydes.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Bisphenol A Diglycidyl Ether Resin	60-70%	25068-38-6	500-033-5	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Aquatic Chronic 2
Polongo of other ingredients or	2 200 hozor	doug or lose the	n 10/ in concentr	ration (or 0.10/ for carainagens, reproductive toxing, or

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: Rinse opened eye for several minutes under running water. If symptoms

persist, consult a doctor. · After swallowing: Drink plenty of water and

provide fresh air. Call for a doctor immediately.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air and to be sure call for a doctor.

Ingestion: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Medical Conditions Generally Aggravated

By Exposure: No further relevant information available.

4.2 Symptoms and Effects Both Acute and Delayed: No further relevant information available.

4.3 Recommendations to Physicians: No further relevant information available.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:



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Use the following fire extinguishing materials: Water Spray: Yes

Carbon Dioxide: Yes

Powder: Yes

5.2 Unusual Fire and Explosion Hazards:

Formation of toxic gases is possible during heating or in case of fire.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 For safety reasons unsuitable extinguishing agents:

Water with full jet.

5.4 Special Fire-Fighting Procedures:

- Structural firefighters must wear Self-Contained Breathing
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental Precautions:

Inform respective authorities in case of seepage into water course or sewage system. Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are: Warm water Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Ensure good ventilation/exhaustion at the workplace.



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7.2 Information about fire - and explosion protection:

Protect from heat.

7.3 Further information about storage conditions:

Keep container tightly sealed. Store receptacle in a well ventilated area.

7.4 Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles. Store in a cool location.

7.5 Specific Uses:

No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Additional information about design of technical facilities:

No further data; see item 7.

8.2 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Not required.

Additional information:

The lists valid during the making were used as basis.

8.3 Exposure controls

Personal protective equipment:

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses.

Tightly sealed goggles.

Body protection:

Use protective suit. Boots.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): White

Odor: Mild

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: >212°C **Flash Point:** 252°C

Danger of Explosion: Product does not present explosion hazard.

Vapor Pressure (hPa @ 77°C): 0.03 hPa Relative Density (@ 20°C): 1.06g/cm³ ± 0.02

Solubility in Water: soluble

9.2 Other information:

No further relevant information available.

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: No decomposition if used and stored according to

specifications.

10.3 Possibility of Hazardous Reactions: Reacts with amines.

Reacts with acids, alkalis and oxidizing agents.

10.4 Conditions to Avoid:
 10.5 Incompatible Substances:
 10.6 Hazardous Decomposition Products:
 No further relevant information available.
 No further relevant information available.
 10.6 Hazardous Decomposition Products:

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Acute Toxicity:

- LD/LC50 values relevant for classification:

25068-38-6 Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin(number average molecular weight ≤ 700)

Oral LD50 >5000 mg/kg (rat)
Dermal LD50 20000 mg/kg (rabbit)

Irritancy: Skin, eye irritant.

Sensitization to the Product: May cause sensitization by skin contact.



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SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity:

25068-38-6 Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin

(number average molecular weight ≤ 700)

EC50 1.8 mg/kg (daphnia)

12.2 Persistence and Degradability: Not easily biodegradable.

No further relevant information available. 12.3 Bioaccumulative Potential: 12.4 Mobility in Soil: No further relevant information available.

12.5 Results of PBT and vPvB Assessment: Not applicable. 12.6 Other Adverse Effects: No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Must not be disposed together with household

garbage. Do not allow product to reach sewage

system.

13.2 Uncleaned packaging: Disposal must be made according to official

regulations.

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number: 3082

UN proper Shipping Name: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (Epoxy resin)

Hazard Class Number and Description:

Packing Group:

9 Miscellaneous dangerous substances and articles. Ш

North American Emergency Response

Guidebook Number:

None

14.2 Environmental Hazards:



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Marine Pollutant: The components of this product are designated by the

Department of Transportation to be Marine Pollutants

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User: None

14.4 International Air Transport Association

Shipping Information (IATA): This product is considered as dangerous goods.

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: 3082

Proper Shipping Name:3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (Epoxy resin)

Hazard Class Number and Description:

Packing Group:

9 Miscellaneous dangerous substances and articles.

Ш

EMS-No: F-A, S-F

SECTION 15 - REGULATORY INFORMATION

15.1 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecPrep SB Part B

Synonyms: N/A CAS No: Mixture

1.2 Product Use: Hardener for coating systems

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600

Company Address Cont: Kansas City, MO 64108

Business Phone: (816) 968-5600 Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Last Revision: March 25, 2016
Date of Current Revision: July 1, 2018

SECTION 2 – HAZARDS IDENTIFICATION

US DOT Symbols: Not Regulated

EU and GHS Symbols:

Signal Word: Danger

Components Contributing to Classification: Benzyldimethylamine, 2-ethylhexanoic acid

2.2 Label Elements:

Hazard Statements:

GHS Hazard Classifications: Skin corrosion/irritation – Category 2

Serious eye damage/eye irritation – Category 1 Toxic to reproduction [unborn child]–Category 2 Causes serious eye damage. Causes skin

irritation. Suspected of damaging the unborn

child.

Precautionary Statements:Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective: > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. Wash hands thoroughly after handling. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before use. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several



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minutes. Remove contact lenses, if present and east to do. Continue rinsing. Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.
Benzyldimethylamine	3-7	103-83-3
2-ethylhexanoic	3-7	149-57-5
Ralance of other ingredients are non-hazardous or less	than 1% in concentration (or 0.1%	for carcinogens, reproductive toxins, or

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: Get medical attention immediately. Call a poison center or physician.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated

promptly by a physician.

Skin Contact: Get medical attention immediately. Call a poison center or physician.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Get medical attention immediately. Call a poison center or physician.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person in conscious, give small amounts of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

Inhalation: Get medical attention immediately. Call a poison center or physician.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.



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> If not breathing, if breathing is irregular or if respiratory arrests occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medial surveillance for 48 hours.

Most important symptoms/effects, acute and delayed

Potential acute health effects:

Eve Contact: Causes serious eve damage.

Inhalations: May give off gas, vapor or dust that is very irritating or corrosive to the

respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: Causes skin irritation.

Ingestion: May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye Contact: Adverse symptoms may include the following:

> Watering Redness

Inhalation: Adverse symptoms may include the following:

> Reduced fetal weight Increase in fetal deaths Skeletal malformations

Ingestion: Adverse symptoms may include the following:

Stomach pains Reduced fetal weight Increase in fetal deaths Skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Symptomatic and supportive therapy as needed. Following severe

exposure medical follow-up should be monitored for at least 48 hours. Protection of first-aiders: No action shall be taken involving any personal risk or without suitable

training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

SECTION 5 – FIRE FIGHTING MEASURES

Flash point: Closed cup: >100°C (>212°F) [Data based on tests on similar products]



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Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.\ **Unsuitable extinguishing media:** None known.

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:

Decomposition products may include the following materials: Carbon Dioxide, Carbon Monoxide, Nitrogen Gases.

Special Protective Actions for Fire-Fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident of there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective Equipment for Fire-Fighters:

Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

<u>Personal Precautions, Protective Equipment and Emergency Procedures:</u> For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.



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SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Protective measures:

Put on appropriate protective equipment (see Section 8). Avoid exposure-obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do no reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Removed contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready to sue. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Occupational exposure limits:

Ingredient Name	Exposure Limits
2-ethylhexanoic acid	ACGIH TLV (United States, 6/2013). TWA: 4 mg/m³ 8 hours. Form: Inhalable fraction and vapor.

Appropriate engineering controls: If user operations generate dust, fumes, gas,

vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls

to keep worker exposure to airborne contaminants below any recommended or

statutory limits.

Environmental exposure controls: Emissions from ventilation or work process

equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to



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Individual protection measures:

Hygiene measures:

Eye/face protection:

Hand protection:

Body protection:

Other skin protection:

Respiratory protection:

the process equipment will be necessary to reduce emissions to acceptable levels.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eye wash stations and safety showers are close to the workstation location.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL).

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard



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if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

Thermal hazards: Not available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Light yellow liquid

Odor: Slight

Odor Threshold: No data available

pH: Not available

Melting/Freezing Point: No data available

Boiling Point: Not available

Flash Point: Closed cup: >100°C (>212°F) [Data based on tests on similar product]

Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): Not available

Vapor Density: No data available Relative Density: Not available Solubility in Water: Soluble

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** >140°C (>284°F)

Density: 1.04 g/cm³

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity:No specific test data related to reactivity available for this

product or its ingredients. This product is stable.

10.2 Stability: This product is stable

10.3 Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to Avoid:No specific data. **10.5 Incompatible Substances:**No specific data.

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:



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Acute toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
Benzyldimethylamine	No official guidelines	LC50 Inhalation Vapor	Rat-Male, Female	2052 mg/m ³
	No official guidelines	LD50 Dermal	Rabbit – Male	1.66 ml/kg
	No official guidelines	LD50 Oral	Rat-Male, Female	579 mg/kg
2-ethylhexanoic acid	OECD 402 Acute	LD50 Dermal	Rat-Male, Female	>2000 mg/kg
•	Dermal Toxicity			
	OECD 401 Acute	LD50 Oral	Rat – Female	2043 mg/kg
	Oral Toxicity			

Irritation/Corrosion

Product/Ingredient Name	Test	Species	Result
Benzyldimethylamine	OECD 404 Acute Dermal	Rabbit	Skin – Corrosive
	Irritation/Corrosion		
	No official guidelines	Rabbit	Eyes – Severe Irritant
2-ethylhexanoic acid	OECD 404 Acute Dermal	Rabbit	Skin – non-irritant
	Irritation/Corrosion		
	OECD 405 Acute Eye	Rabbit	Eyes – non-irritant
	Irritation/Corrosion		_

Conclusion/Summary

Skin

Benzyldimethylamine
2-ethylhexanoic acid
Non-irritating to the skin.
Severely irritating to eyes.
2-ethylhexanoic acid
Non-irritating to the eyes.
Non-irritating to the eyes.
Non-irritating to the eyes.
No additional information.
2-ethylhexanoic acid
No additional information.

Sensitization

Product/Ingredient Name	Test	Route of Exposure	Species	Result
Benzyldimethylamine	OECD 406 Skin	Skin	Guinea pig	Not sensitizing
	Sensitization			
2-ethylhexanoic acid	OECD 406 Skin Sensitization	Skin	Guinea pig	Not sensitizing

Mutagenicity

Product/Ingredient Name	Test	Result
i roductingiculant Name	1031	Result



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Benzyldimethylamine	Experiment: In vitro Subject: Bacteria	Negative
	Metabolic activation: +/- Experiment: In vitro Subject: Mammalian-Animal	Negative
	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
2-ethylhexanoic acid	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary:

Benzyldimethylamine

No mutagenic effect.

Carcinogenicity

Conclusion/Summary:

2-ethylhexanoic acid

A study in animals has shown that doses

produce embryo/foetotoxic effects.

Product/Ingredient Name	Test	Species	Maternal toxicity	Fertility	Developmental Effects
2-ethylhexanoic acid	-	Rat- Male, Female	Negative	Equivocal	Positive

Conclusion/Summary:

Benzyldimethylamine

In accordance with section 1 of Regulation (EC) No 1907/2006, Annex XI, this test does not appear scientifically necessary.

Teratogenicity

Product/Ingredient Name	Test	Species	Result/Result Type
2-ethylhexanoic acid	EPA CFR	Rat – Female	Positive - Oral

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects

Eye Contact: Causes serious eye damage.



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Inhalation: May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. Exposure to

decomposition products may cause health hazard. Serious

effect may be delayed following exposure.

Skin Contact: Causes skin irritation.

Ingestion: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye Contact: Adverse symptoms may include the following:

Pain watering redness

Inhalation: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin Contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effect from short and long term exposure

Short term exposure

Potential immediate effects: Not available. **Potential delayed effects:** Not available.

Long term exposure

Potential immediate effects: Not available. **Potential delayed effects:** Not available.

Potential chronic health effects

Product/Ingredient Name	Test	Endpoint	Species	Result
Benzyldimethylamine	OECD 407 Repeated	Sub-acute NOAEL	Rat- Male, female	150 mg/kg
	Dose 28-day Oral	Oral		
	Toxicity Study in Rodents			
2-ethylhexanoic acid	EPA OPPTS EPA	Sub-chronic	Rat-Male, Female	300 mg/kg
	OPP .82-2	NOAEL Oral		

General:

Carcinogenicity:

No known significant effects or critical hazards.



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Teratogenicity:

Developmental Effects:

Fertility Effects:

Suspected of damaging the unborn child.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates

Not available.

Other information: Not available.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

Product/Ingredient	Test	End Point	Exposure	Species	Result
Name					
	DIN DIN 38412 Part 8	Acute EC50	17 Hours Static	Bacteria	749.6 mg/l
	EU EC C.2 Acute Toxicity for Daphnia	Acute EC50	48 Hours Static	Daphnia	>100 mg/l
	EU EC C.3 Algal Inhibition Test	Acute ErC50 (growth rate)	72 Hours Static	Algae	1.34 mg/l
Benzyldimethylamine	OEDC 203 Fish, Acute Toxicity Test	Acute LC50	96 Hours Static	Fish	37.8 mg/l
	DIN DIN 38412 Part 8	Chronic EC10	17 Hours Static	Bacteria	534 mg/l
	EU EC C.3 Algal Inhibition Test	Chronic LOAEL	72 Hours Static	Algae	0.24 mg/l
	EU	Chronic NOEC	21 Days Semi-Static	Daphnia	0.789 mg/l
	OECD 202: Part I (Daphnia sp., acute immobilization test)	Acute EC50	48 Hours Static	Daphnia	85.4 mg/l
	DIN DIN 38412 part 9	Acute EgC50	72 Hours Static	Algae	49.3 mg/l
2-ethylhexanoic acid	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 Hours Static	Fish	180 mg/l
2-ethylnexanoic acid	DIN DIN 38412 Part 8	Chronic EC10	17 Hours Static	Bacteria	71.7 mg/l
	DIN DIN 38412 Part 9	Chronic LOAEL	72 Hours Static	Algae	32 mg/l
	OECD 211 Daphnia Magna Reproduction Test	Chronic NOECr	21 Days Semi-static	Daphnia	25 mg/l

Conclusion/Summary: Benzyldimethlamine

Harmful to aquatic organisms if run directly to surface waters.



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Persistence and degradability

Product/Ingredient Name	Test	Period	Result	
Benzyldimethylamine	OECD 301C Ready	28 Days	0 to 2 %	
	Biodegradability - Modified			
	MITI Test (I)			
2-ethylhexanoic	OECD 301E Ready	28 Days	99 %	
-	Biodegradability – Modified			
	OECD Screening Test			

Conclusion/Summary: Proprietary Component #1 Not readily biodegradable.

Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
Benzyldimethylamine	-	-	Not readily
2-ethylhexanoic acid	-	-	Readily

Bioaccumulative potential

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Benzyldimethylamine	1.98	2.1 to 22	Low
2-ethylhexanoic acid	2.7	60	Low

Mobility in soil

Not available.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information

BOD5: Not determined. COD: Not determined. TOC: Not determined.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.



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SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number: Not Regulated

Proper Shipping Name:
Hazard Class Number and Description:
None
Packing Group:
None
DOT Label(s) Required:
None

North American Emergency Response

Guidebook Number: None

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are designated by the

None

Department of Transportation to be Marine Pollutants

This product is considered as dangerous goods.

(49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: Not regulated

Proper Shipping Name:
Hazard Class Number and Description:
None
Packing Group:
None
EMS-No:
None

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product

United States Regulations

TSCA 8(b) inventory: All components are listed or exempted.

TSCA 5(a) 2 Final Significant

new use rule (SNUR):No ingredients listed.

TSCA 5(e) substance consent

order: No ingredients listed.

TSCA 12(b) export notification: No ingredients listed.

SARA 311/312: Immediate (acute) health hazard

Delayed (chronic) health hazard

Clean Air Act - Ozone

Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone

depleting substances.



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SARA 313: No ingredients listed.

CERCLA Hazardous Substances: No ingredients listed.

State Regulations

PENNSYLVANIA – RTK: No ingredients listed.

California Prop 65: This product contains no listed substances known to the State of

California to cause cancer, birth defects or other reproductive harm, at

levels which would require a warning under the statute.

Canadian Regulations

CEPA DSL: At least one component not listed.

WHMIS Classes: Class D-1B: Material causing immediate and serious toxic effect

(Toxic.)

Class E: Corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all information required by the Controlled Products Regulations.

Brazil Regulations

Classification system used: Norma ABNT-NBR 14725-2:2012

International lists: Australia Inventory (AICS): At least one component not listed.

China Inventory (IECSC): At least one component not listed.

Japan Inventory: All components are listed or exempted.

Korea Inventory: At least one component is not listed.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): At least one

component not listed.

Philippines Inventory (PICCS): At least one component is not listed.

Taiwan Inventory (CSNN): Not determined.

SECTION 16 – OTHER INFORMATION

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem



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assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecPrep SB (Part C)

Synonyms: N/A CAS No: Mixture

1.2 Product Use:Bonding agent component

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Company Address Cont: Kansas City, MO 64108

Business Phone: (816) 968-5600 Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Last Revision: February 1, 2015
Date of Current Revision: July 1, 2018

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a gray powder with minimal odor.

<u>Health Hazards</u>: May cause skin and respiratory irritation and burns to the eyes. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to the lungs. Contains components that are defined as human carcinogens.

Flammability Hazards: This product is not considered flammable.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols Not Regulated



Signal Word Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

238-878-4 is not listed in Annex I

266-043-4 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Crystalline Silica (Quartz)/Silica Sand, Portland

Cement, Calcium Oxide, Aluminum Sulfate



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2.2 Label Elements:

GHS Hazard Classifications: Carcinogenicity Category 2

STOT – SE Category 3 (Respiratory System)

Skin Irritation Category 2 Skin Sensitization Category 1 Eye Damage Category 1

Hazard Statements: H351 Suspected of causing cancer

H373 May cause damage to organs

(Respiratory System) through prolonged or

repeated exposure

H335 May cause respiratory irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions

have been read and understood.

P260 Do not breath

dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated

area.

P272 Contaminated work clothing should not be

allowed out of the workplace

P270 Do not eat, drink or smoke when using

this product.

P280 Wear protective gloves/eye

protection/face protection.

Response Statements: P308+P313 IF exposed or concerned: Get

medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/Doctor if you

feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of

water.

P333+P312 If skin irritation or rash occurs: Get

medical advice/attention.

P362+P364 Take off contaminated clothing and

wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsina.

P310 Immediately call a POISON

CENTER/Doctor.

Storage Statements: P403+P233 Store in a well-ventilated place.

Keep container tightly closed.

P405 Store locked up.



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Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations..

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory irritation. Skin Contact: May cause irritation to skin.

Eye Contact: Contact with the eyes may cause burns or irritation. Ingestion: May cause gastrointestinal irritation, nausea, and vomiting. **Chronic:** Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Eyes, Skin, Respiratory

Chronic: Lung, Skin

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Crystalline Silica (Quartz)/ Silica Sand	50–70%	14808-60-7	238-878-4	Carc. 2, STOT RE2
Portland Cement	25–45%	65997-15-1	266-043-4	STOT SE3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1
Calcium Oxide	3–10%	1305-78-8	215-138-9	STOT SE3, Skin Irrit. 2, Eye Dam. 1
Aluminum Sulfate	1–4%	10043-01-3	233-135-0	STOT SE3, Skin Irrit. 2, Eye Dam. 1

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center if you feel unwell.



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If professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical Conditions Generally Aggravated By Exposure:

Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin and respiratory may cause

irritation. Contact with the eyes may cause burns. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to

the lungs.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

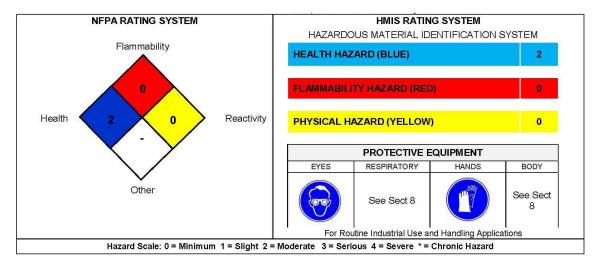
- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.



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• If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

If liquid was introduced, construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE



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7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Rapid setting concrete repair mortar.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL	ACGIH TWA
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	TWA 0.1 mg/m3 (resp) TWA 0.3 mg/m3 (total)		0.025 mg/m3
Portland Cement	65997-15-1	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	TWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)	10 mg/m3 (total)
Calcium Oxide	1305-78-8	TWA 5 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3
Aluminum Sulfate	10043-01-3	TWA 2 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Maintain airborne contaminant concentrations

below guidelines listed above. Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to

Hand Protection: prevent skin contact. If necessary, refer to U.S.

OSHA 29 CFR 1910.138, the European



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Body Protection:

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Standard DIN EN 374, the appropriate

Standards of Canada, Australian Standards, or

relevant Japanese Standards.

Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

ppearance (Physical State and Color): Gray powder

Odor: Minimal

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: No data available Flash Point: No data available Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: No data available Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available

Specific Gravity: 2.6 - 3.2 Solubility in Water: Miscible

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.
10.4 Conditions to Avoid: No data available.



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10.5 Incompatible Substances: Hydrogen fluoride. **10.6 Hazardous Decomposition Products:** No data available.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data: No data available

Suspected Cancer Agent: Crystalline Silica (Quartz)/Silica Sand (CAS 14808-60-7) is

found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore is considered

to be a cancer-causing agent by these agencies.

Irritancy: Skin, eye, and respiratory irritant.

Sensitization to the Product: This product is expected to cause skin sensitization.

Germ Cell Mutagenicity: This product does not contain ingredients that are suspected

to be a germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable



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North American Emergency
Response Guidebook Number:
Not applicable

14.2 Environmental Hazards:

Marine Pollutant:

The components of this product are not designated by

the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number:

Proper Shipping Name:
Hazard Class Number and Description:
Packing Group:

EMS-No:

Not applicable
Not applicable
Not applicable
Not applicable

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

None

Not regulated.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does contain "Silica, crystalline", which is on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations



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15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



SpecShot Plus

Version 1

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): SpecShot Plus

Synonyms: N/A
CAS No: Mixture

1.2 Product Use: Shotcrete

1.3 Company Name: SpecChem

Company Address: 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108

Business Phone: (816) 968-5600 Website: www.specchemllc.com

1.4 Emergency Telephone Number: Chemtrec: (800) 424-9300

Date of Current Revision: February 1, 2016
Date of Last Revision: May 17, 2012

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a gray powder with minimal odor.

<u>Health Hazards</u>: May cause skin and respiratory irritation and burns to the eyes. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to the lungs. Contains components that are defined as human carcinogens.

Flammability Hazards: This product is not considered flammable.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols Not Regulated



Signal Word Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

266-043-4 is not listed in Annex I CAS 26499-65-0 is not listed in ESIS 215-279-6 is not listed in Annex I CAS 93763-70-3 is not listed in ESIS 215-138-9 is not listed in Annex I 215-168-2 is not listed in Annex I



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202-049-5 index number is 601-052-00-2

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification: Portland Cement, Plaster of Paris, Limestone,

Perlite, Calcium Oxide, Diiron Trioxide,

Naphthalene

2.2 Label Elements:

GHS Hazard Classifications: Carcinogenicity Category 2

STOT – SE Category 3 (Respiratory System)

Skin Irritation Category 2 Skin Sensitization Category 1 Eye Damage Category 1

Hazard Statements: H351 Suspected of causing cancer

H335 May cause respiratory irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions

have been read and understood.

P260 Do not breath

dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated

area.

P272 Contaminated work clothing should not be

allowed out of the workplace

P270 Do not eat, drink or smoke when using

this product.

P280 Wear protective gloves/eye

protection/face protection...

Response Statements: P308+P313 IF exposed or concerned: Get

medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/Doctor if you

feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of

water

P333+P312 If skin irritation or rash occurs: Get

medical advice/attention.

P362+P364 Take off contaminated clothing and

wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON

CENTER/Doctor



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Storage Statements: P403+P233 Store in a well-ventilated place.

Keep container tightly closed.

P405 Store locked up.

Disposal Statements: P501 Dispose of contents/container in

accordance with

local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory irritation. Skin Contact: May cause irritation to skin.

Eye Contact: Contact with the eyes may cause burns or irritation. Ingestion: May cause gastrointestinal irritation, nausea, and vomiting. **Chronic:** Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Eyes, Skin, Respiratory

Chronic: Lung, Skin

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Portland Cement	< 50%	65997-15-1	266-043-4	STOT SE3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1
Crystalline Silica (Quartz)/ Silica Sand	< 50%	14808-60-7	238-878-4	Carc. 2, STOT RE2
Limestone	10-15%	1317-65-3	215-279-6	Skin Irrit. 3, Eye Irrit. 2B
Fly Ash	< 15%	681131-74-8	N/A	N/A
Napthalene	< 0.4%	91-20-3	202-049-5	Acute Tox. 4, Carc. 2, Aquatic Acute 1, Aquatic Chro

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: If product enters the eyes, flush with plenty of water or eye wash

solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water after handling. Seek medical



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attention if irritation develops and persists.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

Ingestion: If product is swallowed, call physician or poison center immediately. If

professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health

professional.

Medical Conditions Generally Aggravated

By Exposure: Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed: Exposure to skin and respiratory may cause

irritation. Contact with the eyes may cause burns. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to

the lungs.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

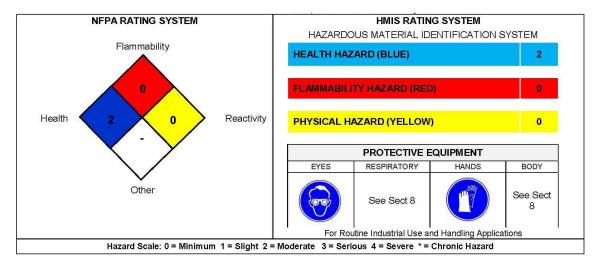
- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.



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 If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

If liquid was introduced, construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE



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7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Multi-purpose grout.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL	ACGIH TWA
Portland Cement	65997-15-1	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	TWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)	10 mg/m3 (total)
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	TWA 0.1 mg/m3 (resp) TWA 0.3 mg/m3 (total)	Ca TWA 0.05 mg/m3	0.025 mg/m3
Naphthalene	91-20-3	TWA 10 ppm (50 mg/m3)	TWA 10 ppm (50 mg/m3)	Not Listed
Fly Ash	681131-74-8	TWA 5 mg/m3	TWA 5mg/m3	Not Listed

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:Maintain airborne contaminant concentrations

below guidelines listed above. Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

states

Eye Protection: Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S.

OSHA 29 CFR 1910.138, the European

Hand Protection:

Body Protection:



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Standard DIN EN 374, the appropriate

Standards of Canada, Australian Standards, or

relevant Japanese Standards.

Use body protect appropriate to task being

performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in

U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

ppearance (Physical State and Color): Gray powder

Odor: Minimal

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: No data available Flash Point: No data available Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available

Specific Gravity: 2.6 - 3.2 Solubility in Water: Miscible

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive.

10.2 Stability: Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions: Will not occur.
10.4 Conditions to Avoid: No data available.



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10.5 Incompatible Substances: Hydrogen fluoride. **10.6 Hazardous Decomposition Products:** No data available.

SECTION 11 - TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Naphthalene	91-20-3	LD50 Oral – Rat	490 mg/kg
Crystalline Silica (Quartz/ Silica Sand	14808-60-7		

Suspected Cancer Agent: Naphthalene (CAS 91-20-3) and Crystalline Silica

(Quartz)/Silica Sand is found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore is considered to be a cancer-causing agent by these

agencies.

Irritancy: Skin, eye, and respiratory irritant.

Sensitization to the Product: This product is expected to cause skin sensitization.

Germ Cell Mutagenicity: This product does not contain ingredients that are suspected

to be a germ cell mutagenic.

Reproductive Toxicity: This product is not expected to be a human reproductive

toxicant.

Toxicity

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and Degradability: No specific data available on this product.
 12.3 Bioaccumulative Potential: No specific data available on this product.
 12.4 Mobility in Soil: No specific data available on this product.
 12.5 Results of PBT and vPvB Assessment: No specific data available on this product.

12.6 Other Adverse Effects: No data available

12.7 Water Endangerment Class: At present, there are no ecotoxicological assessments

for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Waste disposal must be in accordance with

appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member

States and Japan.

13.2 EU Waste Code: Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.



SpecShot Plus

Version 1

UN Identification Number: Not applicable **Proper Shipping Name:** Not regulated **Hazard Class Number and Description:** Not applicable **Packing Group:** Not applicable DOT Label(s) Required: Not applicable

North American Emergency

Response Guidebook Number: Not applicable

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are not designated by

None

Not regulated.

the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: Not applicable Not regulated **Proper Shipping Name: Hazard Class Number and Description:** Not applicable **Packing Group:** Not applicable EMS-No: Not applicable

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does contain "Silica, crystalline", which is on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.



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Canadian WHMIS Classification and Symbols:

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: February 1, 2016

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET

Printing date 02/14/2019 Revised On 02/11/2019

1 Identification of the substance and manufacturer

Trade name: FLUORESCENT ORANGE

0000200657 Product code:

Recommended use: Paint and coating applications.

Any that differs from the recommended use. Uses advised against:

Seymour of Sycamore Manufacturer/Supplier:

917 Crosby Avenue Sycamore, IL 60178 USA phone: 815-895-9101

Seymour of Sycamore 3041 Dougall Avenue, Suite 503 Windsor, ONT N9E 1S3 CANADA phone: 800-435-4482 www.seymourpaint.com

www.seymourpaint.com

Emergency telephone number: 1-800-255-3924

2 Hazard(s) identification

Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated. Press. Gas

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS Hazard pictograms

Precautionary statements

GHS02 GHS04 GHS07 GHS08

Signal word Danger

Hazard statements Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

Store in a well-ventilated place.

Store locked up Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Chemical Description: This product is a mixture of the substances listed below with nonhazardous additions.

	components:	
	VM&P Naphtha	18.21%
74-98-6	propane	15.13%
1317-65-3	Calcium Carbonate	11.75%
	n-butane	8.88%
	Mineral Spirits	3.85%
110-19-0	Isobutyl Acetate	3.2%

4 First-aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints. Remove contaminated clothing. Wash exposed area with soap and water. After skin contact: After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. Rinse mouth with water. Do not induce vomiting.

After swallowing:

Most important symptoms and effects:

Dizziness

Indication of any immediate medical

No further relevant information available. attention needed:

5 Fire-fighting measures

Extinguishing agents: Special hazards: Protective equipment for

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

Can form explosive gas-air mixtures.

firefighters: A respiratory protective device may be necessary.

6 Accidental release measures

Personal precautions, protective equipment and emergency

Use respiratory protective device against the effects of fumes/dust/aerosol. procedures: Methods and material for

containment and cleaning up: Absorb liquid components with liquid-binding material.

(Contd. on page 2)

Printing date 02/14/2019 Revised On 02/11/2019

Trade name: FLUORESCENT ORANGE

(Contd. of page 1)

7 Handling and storage

Precautions for safe handling

Use only in well ventilated areas.

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up. Storage requirements:

8 Exposure controls/personal protection

Components with limit values that require monitoring at the workplace:

74-98-6 propane

PEL (USA) Long-term value: 1800 mg/m³, 1000 ppm REL (USA) Long-term value: 1800 mg/m³, 1000 ppm TLV (USA) refer to Appendix F inTLVs&BEIs book; D, EX

106-97-8 n-butane

REL (USA) Long-term value: 1900 mg/m³, 800 ppm TLV (USA) | Short-term value: 2370 mg/m³, 1000 ppm

110-19-0 Isobutyl Acetate

PEL (USA) Long-term value: 700 mg/m³, 150 ppm REL (USA) Long-term value: 700 mg/m³, 150 ppm Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm TLV (USA)

Hygienic protection:

Wash hands after use. Do not eat or drink while working.

Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical

hygeine.

Hand protection: Mitrile gloves.

Eye protection:

The glove material must be impermeable and resistant to the substance. Tightly sealed goggles

9 Physical and chemical properties

Appearance: Aerosol. Odor: Aromatic Odor threshold: Not determined. pH-value: Not determined. Melting point/Melting range Undetermined. Boiling point: -44 °C (-47.2 °F) -19 °C (-2.2 °F) Flash point:

Flammability (solid, gas): Extremely flammable. **Decomposition temperature:** Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

Lower Explosion Limit: 1.7 Vol % **Upper Explosion Limit:** 10.9 Vol % Vapor pressure: Not determined.

Relative Density: Between 0.77 and 0.85 (Water equals 1.00)

Vapor density Not determined. **Evaporation rate** Not applicable. Partition coefficient: n-octonal/water: Not determined. Solubility: Not determined. Viscosity: Not determined.

VOC content (less exempt solvents): 50.5 % Water:

10 Stability and reactivity

Chemical stability:

Reactivity: Stable at normal temperatures.

Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing

> temperatures. Not fully evaluated.

Possibility of hazardous reactions:

No dangerous reactions known.

Incompatible materials: No further relevant information available. Hazardous decomposition: No dangerous decomposition products known.

11 Toxicological information

LD/LC50 values that are relevant for classification:

106-97-8 n-butane

Inhalative LC50/4 h 658 mg/l (rat)

110-19-0 Isobutyl Acetate

LD50 4,763 mg/kg (rbt) Oral

Information on toxicological effects: No data available.

(Contd. on page 3)

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(Contd. of page 2)

Safety Data Sheet

Printing date 02/14/2019 Revised On 02/11/2019

Trade name: FLUORESCENT ORANGE

Skin effects: No irritant effect. Eye effects:

No irritating effect. No sensitizing effects known.

12 Ecological information

Sénsitization:

Aquatic toxicity: Persistence and degradability:

Hazardous for water, do not empty into drains.

Other information:

The product is degradable after prolonged exposure to natural weathering processes. This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), or chlorinated

solvents.

Bioaccumulative potential: No further relevant information available. No further relevant information available. Mobility in soil: Other adverse effects: No further relevant information available.

13 Disposal considerations

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation: Completely empty cans should be recycled.

14 Transport information

UN-Number UN1950 DOT N/A

DOT Consumer Commodity ORM-D

Aerosols, flammable

ADR 1950 Aerosols

Transport hazard class(es):

Class

Special precautions for user:

Warning: Gases

EMS Number: F-D,S-U

Packaging Group:

UN "Model Regulation": UN 1950 AEROSOLS, 2.1

15 Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed. Toxic Substances Control Act

(TSCA):

All hazardous ingredients for this product are found on the inventory list of substances.

Consumer Product Safety

Comission (CPSC): This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

100-41-4 ethyl benzene

California Proposition 65 chemicals known to cause birth defects or reproductive harm:

None of the ingredients in this product are listed.

CANADIAN ENVIRONMENTAL

PROTECTION ACT: All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

EPA:

110-19-0 Isobutyl Acetate

16 Other information

Contact: Regulatory Affairs



A SIKA BRAND

Safety Data Sheet

Perma-Cast® Clear Liquid Release

625 W. Illinois Ave., Aurora IL 60506

Ph.: (630) 906-1980 - Fax: (630) 906-1982

www.butterfieldcolor.com

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

Section 1 Identification

PRODUCT IDENTITY: Perma-Cast® Clear Liquid Release

PRODUCT USES: Release Agent

COMPANY IDENTITY: Butterfield Color® COMPANY ADDRESS: 625 W Illinois Ave COMPANY CITY: Aurora, IL 60506 COMPANY PHONE: 1-630-906-1980

EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)

CANUTEC: 1-613-996-6666 (CANADA)

Section 2, Hazard(s) identification

Danger







2.1 HAZARD STATEMENTS: (CAT = Hazard Category)

H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

H226 Flammable liquid & vapor.(CAT:3)

H304 May be fatal if swallowed and enters airways.(CAT:1)

H315 Causes skin irritation.(CAT:2) H320 Causes eye irritation.(CAT:2)

H335 May cause respiratory irritation.(CAT:3)
H336 May cause drowsiness or dizziness.(CAT:3)

H402 Harmful to aquatic life.(CAT:3)

2.2 PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P264 Wash with soap & water thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 IF ON SKIN: Wash with soap & water.

P304+340 IF INHALED: Remove victim to fresh air & keep at rest in a position comfortable for breathing. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

& easy to do - Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

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SDS No. 119 - Perma-Cast® Clear Liquid Release

PLEASE ENSURE THAT THIS SDS IS GIVEN TO AND EXPLAINED TO PEOPLE USING THIS PRODUCT EMERGENCY INFORMATION: CALL CHEMTREC (800) 424-9300

P332+313	If skin irritation occurs: Get medical advice/attention.
P337+313	If eye irritation persists, get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

Section 3, Composition / Information on Ingredients

MATERIAL	CAS#	EINECS#	WT %
Odorless Mineral Spirits	64742-48-9	265-200-4	60-95
Nonhazardous Nonvolatile	Proprietary	-	0-30

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

Section 4, First Aid Measures

4.1 MOST IMPORTANT SYMPTOMS/EFFECTS. ACUTE & DELAYED:

See Section 11 for symptoms/effects, acute & chronic.

4.2 EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

4.4 SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

4.5 INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

4.6 SWALLOWING:

Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

Do NOT give liquids to an unconscious or convulsing person.

Section 5, Fire Fighting Measures

5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:

NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, and lighting.

5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:

Use dry powder, AFFF, carbon dioxide.

5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots).

5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:

FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Isolate from oxidizers, heat, & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

Section 6, Accidental Release Measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES:

Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Filter respirator for organic vapors.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

6.3 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:

Stop spill at source. Dike and contain. Absorb remaining liquid in sand or inert absorbent.

Section 7, Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING:

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid prolonged or repeated contact with skin. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Isolate from strong oxidants. Keep container tightly closed & upright when not in use to prevent leakage.

7.3 NONBULK: CONTAINERS:

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

7.4 PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

7.5 EMPTY CONTAINER WARNING:

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATICELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.

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Section 8, Exposure Controls / Personal Protective Equipment

8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Odorless Mineral Spirits	64742-48-9	265-200-4	500 ppm	100 ppm
Nonhazardous Nonvolatile	Proprietary	-	None Known	None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

8.2 APPROPRIATE ENGINEERING CONTROLS:

RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxiliary positive pressure Self-Contained Breathing Apparatus.

VENTILATION

LOCAL EXHAUST: Necessary MECHANICAL (GENERAL): Acceptable SPECIAL: None OTHER: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

Section 9, Physical & Chemical Properties

APPEARANCE: Liquid, Water-White

ODOR: Mild

ODOR THRESHOLD:

PH (Neutrality):

MELTING POINT/FREEZING POINT:

Not Available

Not Available

BOILING RANGE (IBP,50%,Dry Point): 171° 190° 204°* C/340° 374° 400°* F(*=End Point)

FLASH POINT (TEST METHOD): 52° C / 127° F (TCC) EVAPORATION RATE (n-Butyl Acetate=1): Not Applicable

FLAMMABILITY CLASSIFICATION: Class II LOWER FLAMMABLE LIMIT IN AIR (% by vol): 0.95

UPPER FLAMMABLE LIMIT IN AIR (% by vol): Not Available

VAPOR PRESSURE (mm of Hg)@20° C 0.849 VAPOR DENSITY (air=1): 5.2

GRAVITY @ 68/68° F / 20/20° C:

DENSITY: 0.771
SPECIFIC GRAVITY (Water=1): 0.772
POUNDS/GALLON: 6.432

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WATER SOLUBILITY:
PARTITION COEFFICIENT (n-Octane/Water):
AUTO IGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE: VOCs (>0.044 Lbs./Sq In): TOTAL VOC'S (TVOC)*:

HAZARDOUS AIR POLLUTANTS (HAPS):

NONEXEMPT VOC PRESSURE (mm of Hg @ 20° C):

VISCOSITY @ 20° C (ASTM D445):

NONEXEMPT VOC'S (CVOC)*:

* Using CARB (California Air Resources Board Rules).

Negligible
Not Available
260° C / 500° F
Not Available

99.0 Vol% / 762.3.0 g/L / 6.3 Lbs./Gal 99.0 Vol% / 762.3.0 g/L / 6.3 Lbs./Gal 75.0 Vol% / 659.0 g/L / 5.5 Lbs./Gal 0.0 Wt% / 0.0 g/L / 0.000 Lbs./Gal

Not Available

Section 10, Stability & Reactivity

10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions, no hazardous reactions when kept from incompatibles.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

Isolate from oxidizers, heat, & open flame.

10.3 INCOMPATIBLE MATERIALS:

Reacts with strong oxidants, causing fire & explosion hazard.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide from burning.

10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

Section 11, Toxicological Information

11.1 ACUTE HAZARDS

11.11 EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

11.12 INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

11.13 SWALLOWING:

ASPIRATION HAZARD! Harmful or fatal if swallowed. Do NOT induce vomiting. If spontaneous vomiting occurs, keep victim's head below the waist to prevent aspiration. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea. The symptoms of chemical pneumonitis may not show up for a few days.

11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing disorders of any target organs mentioned in this Document can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid use of this product.

11.3 CHRONIC HAZARDS

11.31 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

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- 11.32 TARGET ORGANS: May cause damage to target organs, based on animal data.
- 11.33 IRRITANCY: Irritating to contaminated tissue.
- 11.34 SENSITIZATION: No component is known as a sensitizer.
- 11.35 MUTAGENICITY: No known reports of mutagenic effects in humans.
- 11.36 EMBRYOTOXICITY: No known reports of embryo toxic effects in humans.
- 11.37 TERATOGENICITY: No known reports of teratogen effects in humans.
- 11.38 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

11.4 MAMMALIAN TOXICITY INFORMATION

No mammalian information is available on this product.

Section 12, Ecological Information

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product. Environmental effects of the substance have not been investigated adequately.

12.4 MOBILITY IN SOIL

This material is a mobile liquid.

12.5 DEGRADABILITY

This product is partially biodegradable.

12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

Section 13, Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE USED CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D001

Section 14, Transportation Information

MARINE POLLUTANT: No

DOT/TDG SHIP NAME: NONBULK: Non Regulated - 49 CFR 173.150(f)

DRUM LABEL: Non Regulated – 49 CFR 173.150(f)

IATA / ICAO: UN1993, Flammable liquid, n.o.s., (Contains: Petroleum Distillates), 3, PG-III IMO / IMDG: UN1993, Flammable liquid, n.o.s., (Contains: Petroleum Distillates), 3, PG-III

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

Section 15, Regulatory Information

15.1 EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

15.2 STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA PROP 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

15.3 INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries: Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B3: Combustible Liquid.

D2B: Irritating to eyes/skin.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contain all information required by the CPR.

Page 7 of 8

Section 16, Other Information

16.1 HAZARD RATINGS:

Health: 1, Flammability: 2, Reactivity: 0, Personal Protection: X

(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

16.2 EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS REVISION DATE: 2/27/2019

Notice:

Butterfield Color, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Prepared By: HS&E Compliance Resources



Select Grade® Antiquing Release

Engineered Concrete Performance

625 W. Illinois Ave., Aurora IL 60506 Ph.: (630) 906-1980 - Fax: (630) 906-1982

www.butterfieldcolor.com

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

Section 1 Identification

PRODUCT IDENTITY: Select Grade® Antiquing Release PRODUCT USES: Bond breaker for stamping concrete

COMPANY IDENTITY: Butterfield Color COMPANY ADDRESS: 625 W Illinois Ave. COMPANY CITY: Aurora, IL 60506 COMPANY PHONE:1-630-906-1980 EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA) CANUTEC: 1-613-996-6666 (CANADA)

Section 2, Hazard(s) identification

Danger



2.1 HAZARD STATEMENTS: (CAT = Hazard Category) H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

11050	NASA ARABA ARABA ARABA ARABA (OATA)
H350	May cause cancer (Inhalation) (CAT:1)
H370	Caúses damage to organs (lung/respiratory system) (CAT:1) May be harmful if swallowed. (CAT:5).
H303	May be harmfŭl if swallowed. (ČAT:5).
H313	May be harmful if contacted with skin (CAT:5)
H320	Causes eye irritation. (CAT:2B)
H333	May be harmful if inhaled (CAT·5)

2.2 PRECAUTIONARY STATEMENTS:
P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P405 - Store locked up
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash with soap & water thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

Page 1 of 6 SDS No. 143 – Select Grade® Antiquing Release

PLEASE ENSURE THAT THIS SDS IS GIVEN TO AND EXPLAINED TO PEOPLE USING THIS PRODUCT EMERGENCY INFORMATION: CALL CHEMTREC (800) 424-9300

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 - IF ON SKIN: Wash with soap & water.
P304+340 - IF INHALED: Remove victim to fresh air & keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present & easy to do - Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention
P309+311 - If exposed or you feel under the particle of the property of the p

P332+313 - If skin irritation occurs: Get medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P361- Remove/Take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national and international regulation.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

Section 3, Composition / Information on Ingredients

Mixture

MATERIAL	CAS#	EINECS#	WT	
limestone	1317-65-3	215-279-6	90-98	
Iron Oxide	1332-37-2	215-570-8	2-10%	
Quarts (impurity)	14808-60-7	215-683-2	0-0.1%	

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration. None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. Trade Secret Component is non-hazardous. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

Section 4, First Aid Measures

4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & DELAYED: See Section 11 for symptoms/effects, acute & delayed.

4.2 GENERAL ADVICE:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

4.3 EYE CONTACT:

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing's for 15 minutes. Seek immediate medical attention.

4.4 SKIN CONTACT:

If the product contaminates the skin, wash with soapy water.

4.5 INHALATION:

After high vapor exposure, remove to fresh air.

4.6 SWALLOWING:

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

4.7 NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

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Section 5, Fire Fighting Measures

- 5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:
- The material is non-flammable and will not support combustion.
- 5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:
- 5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS: NA.
- 5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS: NA

Section 6, Accidental Release Measures

- 6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:
- Isolate and contain spill. Avoid excessive dust generation and runoff into a sewer or waterway. Materials can be collected and reused if possible. Place waste in a disposal container and dispose of in accordance with local and state RCRA rules and regulation.
- 6.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES: A disposal dusk mask can be used to prevent excessive dust accumulation.
- 6.3 ENVIRONMENTAL PRECAUTIONS:
- 6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP: Pick up material and reuse as needed.

Section 7, Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING:

Standard work gloves, disposable dust mask to control excessive dust.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool, dry location. Isolate from Fluorine, magnesium, acids, alum, ammonium salts.

Section 8, Exposure Controls / Personal Protective Equipment

8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)

 Quarts (fine fraction)
 14808-60-7 215-683-2 14807-96-6 238-877-9
 0.025 mg/m³ 2 mg/m³

 Iron 1332-37-2
 215-168-2
 10 mg/m³

8.2 APPROPRIATE ENGINEERING CONTROLS:

RESPIRATORY EXPOSURE CONTROLS

Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS NA.

VENTILATION

LOCAL EXHAUST: If Necessary MECHANICAL (GENERAL): If Necessary

SPECIAL: None OTHER: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

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8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:

Splash goggles or safety glasses.

HAND PROTECTION:

Use standard cloth work gloves.

BODY PROTECTION:

Use body protection appropriate for task. Coveralls, are generally acceptable, depending on the task.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated.

Section 9, Physical & Chemical Properties

APPEARANCE: Color Pigmented Powder (Color Varies)

ODOR: No Odor ODOR THRESHOLD:

Not Available ODOR I HRESHOLD:
pH (Neutrality):
MELTING POINT/FREEZING POINT:
BOILING RANGE (IBP,50%,Dry Point):
FLASH POINT (TEST METHOD):
EVAPORATION RATE (n-Butyl Acetate=1):
FLAMMABILITY CLASSIFICATION:
LOWER FLAMMABLE LIMIT IN AIR (% by vol):
UPPER FLAMMABLE LIMIT IN AIR (% by vol):
VAPOR PRESSURE (mm of Hg)@20 C
VAPOR DENSITY (air=1): Not Available Not Available Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Available Not Applicable VAPOR DENSITY (air=1): GRAVITY @ 68/68 F / 20/20 C: Not Applicable

DENSITY Not Available SPECIFIC GRAVITY (Water=1): POUNDS/GALLON: WATER SOLUBILITY: Not Available Not Available Insoluble PARTITION COEFFICIENT (n-Octane/Water):

Not Available DENSITY Not Available Not Available **DECOMPOSITION TEMPERATURE:** VOCs (>0.044 Lbs./Sq In):

TOTAL VOC'S (TVOC)*:

Not Applicable

VISCOSITY @ 20 C (ASTM D445):

Not Applicable

* Using CARB (California Air Resources Board Rules).

Section 10, Stability & Reactivity

10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

NL.

10.3 INCOMPATIBLE MATERIALS:

Isolate from Fluorine, magnesium, acids, alum, ammonium salts,

10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

NL.

10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

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Section 11, Toxicological Information

11.1 ACUTE HAZARDS

11.11 EYE & SKIN CONTACT:

Primary dust irritation to skin, and eyes.

Primary irritation to eyes, redness, tearing, blurred vision. Wash thoroughly after handling with soap and water.

11.12 INHALATION:

Irritates respiratory tract.

11.13 SWALLOWING:

Harmful if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED NL

11.3 CHRONIC HAZARDS

11.31 NL

11.4 MAMMALIAN TOXICITY INFORMATION

MATERIAL CAS# **EINECS#** LOWEST KNOWN LETHAL DOSE DATA

LOWEST KNOWN LD50 (ORAL)

NL

Section 12, Ecological Information

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

NL.

12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

12.5 DEGRADABILITY

Will not degrade.

12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

Section 13, Disposal Considerations

Material may be picked up, reclaimed and reused.

Section 14, Transportation Information

MARINE POLLUTANT: No DOT/TDG SHIP NAME: Non Regulated DRUM LABEL: Non Regulated IATA / ICAO: Non Regulated IMO / IMDG: Non Regulated

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Section 15, Regulatory Information

15.1 EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Non Hazardous, No Sara Reportable

All components of this product are on the TSCA list. SARA Title III Section 313 Supplier Notification

SARA TITLE III INGREDIENTS CAS# **EINECS# WT% (REG.SECTION)** RQ(LBS) None Listed

15.2 STATE REGULATIONS: CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains is not listed.

15.3 INTERNATIONAL REGULATIONS

15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) NA

Section 16, Other Information

16.1 HAZARD RATINGS:
HEALTH (NFPA): 0, HEALTH (HMIS): 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0
(Personal Protection Rating to be supplied by user based on use conditions.)
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating

systems.

16.2 EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS DATE: 5/29/15

Notice:

Butterfield Color expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Prepared By: HS&E Compliance Resources

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SAFFTY DATA SHFFT

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: **PERMINATOR®** Part Number: 5242100

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 10/10/2019 **Product Use:** Vapor Retarder

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS

|Health| Product is classified as non-hazardous per OSHA 1910.1200. Perminator is defined 101 |Flammability| by OSHA as an "article." A manufactured item that is formed to a specific shape |0| or design during manufacture that does not release or result in exposure to a |Reactivity| |0| |Personal Protection| hazardous chemical under normal use conditions.

SECTION 3: HAZARDS COMPONENTS

% by **SARA** Vapor Pressure LEL **Chemical Name:** CAS Number 313 (mm Hg@20°C) (@24°C) Weight 1. Blown Polyethylene Film Proprietary N/A 100 No N/A

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Not expected to be an exposure route. **SKIN CONTACT:** Not Expected to be an exposure route. **INHALATION:** Not expected to be an exposure route. **INGESTION:** Not expected to be an exposure source.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Not applicable; product is a solid.

EXTINGUISHING MEDIA: Water fog, foam, dry chemical.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Not applicable. Product is a solid.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: None. SAFE STORAGE: Prevent job-site damage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA ACGIH

Chemical Name: PEL PEL/CEILING PEL/STEL SKIN **TLV TLV/CEILING** TLV/STEL <u>SKIN</u> 1. Blown Polyethylene N/E N/E N/E No N/E N/E N/E N/E

ENGINEERING CONTROLS: None required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: None required under normal use conditions. N/E = Not Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A VAPOR DENSITY: N/A % VOLATILE BY VOLUME: N/A % VOLATILE BY WEIGHT: N/A **EVAPORATION RATE: N/A** pH LEVEL: N/A

WEIGHT PER GALLON: N/A PRODUCT APPEARANCE: Green Film VOC CONTENT: N/A

ODOR: None **ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D** FLASH POINT: See Section 5 FLAMMABILITY: See Section 5 UEL/LEL: N/D

VAPOR PRESSURE: N/D **RELATIVE DENSITY: N/D** SOLUBILITY: N/D

PARTITION COEFFICENT: N/D DECOMPOSITION TEMPERATURE: N/D AUTOIGNITION TEMPERATURE: N/D N/D: Not Determined VISCOSITY: N/D

SAFETY DATA SHEET

Date of Preparation: 10/10/19 Page 2 of 2 5242100

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: None recognized.

HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Not anticipated to be an exposure route.

SKIN CONTACT: Direct contact may cause slight skin irritation.

INHALATION: Not anticipated to be an exposure route.

INGESTION: Not anticipated to be an exposure route.

SIGNS AND SYMPTOMS: None recognized.

AGGRAVATED MEDICAL CONDITIONS: None recognized.

OTHER HEALTH EFFECTS: None recognized

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E DEGRADABILITY: N/E BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E OTHER ADVERSE EFFECTS: None Recognized

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.

UN NUMBER: None HAZARD CLASS: N/A PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

ENVIRONMENTAL HAZARDS: None recognized.

BULK TRANSPORTATION INFORMATION: None.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 10/10/2019
PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Stego Wrap

Intended Use of the Product

Under-slab and below-grade water vapor barrier

Company Name, Address, and Telephone of the Responsible Party

Stego Industries, LLC 216 Avenida Fabricante #101 San Clemente, CA 92672 USA

Emergency Telephone Number

Emergency Number: 1 (800) 424-9300 (24 Hrs.) CHEMTREC

Main Contact Number: (877) 464-7834

SECTION 2: HAZARDS IDENTIFICATION

Potential Health Effects:

Hazard Information: None as defined under OSHA Hazard Communication Standard: 29 CFR Part 1910.1200. **GHS Classification:** Not classified/not a dangerous substance per Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

GHS Labeling: No Label elements required/not a dangerous substance per Globally Harmonized System of Classification and Labeling of chemicals (GHS).

Inhalation: Inhalation of this product is not a likely route of exposure at room temperature. In the case of critical situations (i.e. fire, overheating, or combustion) excessive inhalation of fumes may result in respiratory irritation. **Skin:** This product is not likely to be hazardous by skin contact under recommended conditions of use. Molten product may cause thermal burns.

Eyes: This product is not likely to be an eye irritant under recommended conditions of use. Mechanical irritation is possible, but unlikely under recommended conditions of use. Molten product may cause thermal burns.

Ingestion: Ingestion of this product is not a likely route of exposure.

Carcinogenicity: These components are not considered to be hazardous chemicals per OSHA Hazard Communication Standard: 29 CFR Part 1910.1200. No Ingredient of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or equal 0.1% is identified as a known or anticipated carcinogen by NTP. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Polyolefins and additives. *

Description: Film made of polyolefins. **

Mixture:

Chemical Characters: Polyolefin and additives.

Hazard Information: The material is not expected to be classified as hazardous.

Continued...

SECTION 4: FIRST AID MEASURES

The following first aid recommendations assume that appropriate personal and industrial hygiene practices are followed.

If Inhaled: This material is not likely to be hazardous by inhalation. At room temperature, the material is neither an irritant nor gives off hazardous vapor. In case of excessive inhalation of fumes due to critical situations (fire, etc.) move the person to fresh air. If symptoms persist, contact a physician.

In Case of Skin Contact: This material is not likely to be hazardous by skin contact. If molten material contacts skin, quickly cool in water, seek immediate medical attention. Do not try to peel solidified material from the skin or use solvents or thinners to dissolve it.

In Case of Eye Contact: Not likely to be an eye hazard in present form. In the case of physical contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of exposure to excessive fumes due to critical situations (fire, etc.) move the person to fresh air. If symptoms persist, contact a physician.

If Wwallowed: This material is not likely to be ingested in present form. Do not induce vomiting. Seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, Water Mist, Dry Chemical, Carbon Dioxide, and Foam. If possible water should be applied as a spray from a fogging nozzle since this is a surface burning material. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards During Fire Fighting: In its normal form, this product offers no unusual explosion hazards. See Hazardous Decomposition Products below.

Special Protective Equipment and Precaution for Fire Fighters: Use personal protective equipment. Wear self-contained breathing apparatus and chemical protective clothing for firefighting, if necessary.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, incomplete combustion products, other hydrocarbons, and hydrocarbon oxidation products depending on temperature and air availability.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Collect spilled material. Danger of slipping on spilled product.

Environmental Precautions: No special measures required. Prevent product from entering drains.

Methods and Materials for Containment and Cleaning Up: Clean up promptly by physical collection, sweeping or vacuum. Recycle product or dispose of properly.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Good personal hygiene practices and employ good housekeeping. Always wash hands after handling the product. When handled in bulk quantities, this product and its associated packaging may present a crushing hazard due to the large masses involved, possibly resulting in severe injury or death. Take precautionary measures against static electricity. Minimize dust generation.

Precautions for Safe Storage: Keep in a cool, dry, well ventilated environment. Product should not be stored in excessive cold, direct sunlight or temperatures exceeding 90°F. Compliance of this policy should ensure optimum performance of this product. Store in accordance with local regulations. Materials should be stored away from heat, sources of ignition, direct sunlight, oxidizing agents and other incompatible materials. Treat as a solid that can burn.

Continued...



SECTION 7: HANDLING AND STORAGE Continued...

Installation Temperature Range: Below 110°F (ambient). Please also see technical and safety data sheets for accessory products installation/application temperature ranges.

In-Service Temperature Range: Below 85°F (soil and slab temperature, beginning 28 days following slab placement). Please also see technical and safety data sheets for accessory products installation/application temperature ranges. Exposure to Ultraviolet Radiation/Weather Events: The amount of time between when Stego Wrap is installed and when concrete is placed or other complete protection from sunlight and weather events is provided should be minimized while not exceeding 7 days.

Please review the remainder of the SDS and this wrap's technical data sheet for storage and additional information. If any of the conditions cited above pose a problem for the typical installation of Stego Wrap, please contact Stego Industries for additional information and solutions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Ventilate area to prevent accumulation of dust and fumes. Use local exhaust ventilation when routinely heat sealing this product. Ensure good ventilation at the workplace.

Exposure Limits: No applicable exposure limits available for product or components.

Personal Protection: Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material is offered only based on our understanding of normal usage. User's selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Respiratory Protection: With proper Engineering Controls in place, no respiratory protection should be required. **Eye Protection:** Use of safety glasses with side shields is good industrial practice. If contact is likely, safety glasses with side shields are recommended.

Skin Protection: Risk of skin irritation is not likely. If irritation occurs or is of concern wear disposable, protective gloves while handling this material.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using tobacco products, or using toilet facilities. Routinely wash work clothing and protective equipment to remove contaminates. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Materials spilled on hard surface can be a serious slipping/falling hazard. Use care in walking on spilled material.

Environmental Controls: Comply with applicable environment regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

Occupational Exposure Limits: Consult local authorities for acceptable exposure limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Physical Form: Solid plastic film.

Information on Basic Physical and Chemical Properties

AppearanceFilmPhysical StateSolid

Odor Mild to no odor

Continued...

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES Continued...

Odor ThresholdNo data availablepH-valueNot applicableMelting Point (C)90-140 degreesFreezing Point (C)No data availableFlash PointNo data available

Flammability (solid, gas)Not classified. Polymer will burn but does not easily ignite.

Solubility in Water Insoluble

Auto-ignition TempNo data availableDensity1.00-0.91 g/ccLower Explosion LimitNot applicableUpper Explosion LimitNot applicableExplosive PropertiesNo data available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions.

Conditions to Avoid: Avoid elevated temperatures for prolonged periods of time, contact with strong oxidizers, sparks or open flame. Minimize dust generation and accumulation.

Materials to Avoid: Avoid contacts with strong oxidizing agents. Material product performance and/or service life may be adversely affected by some aromatic hydrocarbons or other known polymer pro-degradants.

Hazardous Decomposition Products: Material does not decompose at ambient temperature.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral Toxicity: Health injuries are not known or expected under normal use. Presumed not toxic.

Inhalation Toxicity, Vapor: Health injuries are not known or expected under normal use. Presumed not toxic.

Dermal Toxicity: Health injuries are not known or expected under normal use. Presumed not toxic.

Skin Irritation: No data available. No adverse effects expected. **Eye Irritation:** No data available. No adverse effects expected. **Sensitization:** No data available. No adverse effects expected.

Carcinogenicity: See section 2.

Additional Toxicological Information: Contains additives that are encapsulated in the film. Under the normal conditions for use of this film the encapsulated additives are not expected to pose any health hazards per our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and Degradability: This material is persistent in the environment. Not readily biodegradable.

Bioaccumulation: No data available. No bioaccumulation expected.

Mobility: Product is insoluble and floats on water.

Ecotoxicity (Aquatic and Terrestrial): Not expected to be harmful to aquatic or terrestrial organisms.

Biodegradability: The material is not expected to be readily biodegradable.

Other Information: Recycle material or dispose of properly.

Continued...

STEGO® WRAP SAFETY DATA SHEET

Revision Date: July 30, 2018 | Date of Issue: February 23, 2017 | Version Number: 4.0

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal (recommendations based on product as supplied): Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. It is recommended that all waste be analyzed for compliance to applicable laws and regulations governing proper recycling and/or disposal methods and reporting requirements. Consult your local or regional authorities.

SECTION 14: TRANSPORT INFORMATION

US DOT Hazard Class: Not regulated

SECTION 15: REGULATORY INFORMATION

US Regulations:

TSCA: All components of this product are on the TSCA inventory or are exempt from listing.

SECTION 16: OTHER INFORMATION

MEDICAL APPLICATION CAUTION: Do not use this material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

- * Article; product meets definition of an article as defined by official OSHA interpretations.
- ** As per paragraph (i) of OSHA Hazard Communication Standard 29 CFR Part 1910.1200, formulation is considered a trade secret and specific chemical identify and exact percentage of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designation representatives in accordance with applicable provisions of paragraph (i).

Disclaimer: The information contained herein only applies to the noted product. To the best of our knowledge, having been obtained through our suppliers or third parties, this information is accurate. We make no warranties, express or implied, concerning this information or the safe use of the noted product, and we disclaim liability from loss, damage, or other from the product's use, handling, or storage. Users are responsible for verifying the fitness/suitable of the product for any purposes/applications and for confirming compliance with any/all relevant codes or regulations.

Please read the Product Statements for all Stego® products by navigating here: http://www.stegoindustries.com/legal



ISI BUILDING PRODUCTS®

SAFETY DATA SHEET

FOR VIPER® II UNDER-SLAB VAPOR BARRIER

IDENTIFICATION

PRODUCT NAME: Viper II DESCRIPTION: Multi-Layer (Co-Extruded), Virgin Polyolefin RECOMMENDED USE: Under-Slab Vapor Barrier

MANUFACTURER

ISI BUILDING PRODUCTS 401 Truck Haven Road East Peoria, IL 61611 866.698.6562 / www.isibp.com

HAZARD(S) IDENTIFICATION

Classified as nonhazardous. Products are considered an "Article" as defined by OSHA Hazard Communication Standard 29 CFR 1910.1200 (c) and do not pose a physical hazard or health risk to employees.

EYE: If heated, thermal burns may result

SKIN: If heated, thermal burns may result. Not expected to cause prolonged/significant irritation or allergic skin response.

INGESTION: Not expected to be harmful if swallowed

INHALATION: If heated, fumes may be unpleasant and produce nausea or irritation of upper respiratory tract

OTHER HAZARDS: No additional information available

CLASSIFICATION: No need for classification according to GHS criteria for this product

LABEL ELEMENTS: Does not require a hazard warning label in accordance with GHS criteria

COMPOSITION/INGREDIENTS

CHEMICAL FAMILY: Polyolefin

COMPONENT:CAS NUMBER:AMOUNT:Polyethylene25213-02-9<100% weight</td>AdditivesVarious<4% weight</td>

FIRST AID MEASURES

Products in plastic sheet form are not expected to cause adverse health effects under normal handling and storage conditions.

EYE: If heated material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get immediate medical attention.

SKIN: If heated material gets on skin, quickly cool in water. See a doctor for extensive burns. Do not try to peel solidified material from skin or use solvents or thinners to dissolve it. Use of vegetable oil, mineral oil or petroleum jelly is recommended for removal of material from skin.

INGESTION: Not expected to be harmful if swallowed. May cause choking.

INHALATION: If heated, fumes may be unpleasant and produce nausea or irritation of upper respiratory tract. Move exposed person to fresh air. If breathing is difficult, give oxygen. Get medical attention if difficulties continue.

FIREFIGHTING MEASURES

FIRE CLASSIFICATION: OSHA Classification (29 CFR 1910.1200): Not flammable or combustible.

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 1

FLAMMABLE PROPERTIES: Flashpoint: 340°C (644°F) Autoignition: 380°C (716°F)

FLAMMABILITY (Explosive) LIMITS (% by volume in air): Lower: N/A Upper: N/A

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

FIREFIGHTING PROCEDURES: If possible, water should be applied as a spray from a fogging nozzle. Application of high velocity water will spread the burning surface layer.

COMBUSTION PRODUCTS: Incomplete combustion can also produce formaldehyde. Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, original monomer, other hydrocarbons and hydrocarbon oxidation products, depending on temperature and air availability.

ACCIDENTAL RELEASE MEASURES

PROTECTIVE MEASURES: Products should not be stored or exposed to heat or sources of ignition. A static charge may be present on finished products.

SPILL MANAGEMENT: N/A in solid form. If heated material is spilled, allow to cool before proceeding with disposal methods. Dispose of in manner consistent with applicable regulations.

HANDLING & STORAGE

Do not use or store near heat, sparks or open flames. Always store in dry location. Take measures to prevent the build up of electrostatic charge.

EXPOSURE CONTROLS/PROTECTION

Products, in plastic sheet form, are not expected to cause adverse health effects under normal handling and storage conditions.

EYE/FACE PROTECTION: Should not be necessary SKIN PROTECTION: Should not be necessary HAND PROTECTION: Should not be necessary

RESPIRATORY PROTECTION: Should not be necessary

INGESTION: No precautions necessary due to products'

physical properties VENTILATION: Normal

PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE: Blue, gray, black, white or silver plastic sheet

ODOR: Odorless

AUTOIGNITION: 380°C (716°F)

BOILING POINT: N/A

DENSITY: 0.91 g/cm3 to 0.97 g/cm3

EVAPORATION RATE: N/A

FLAMMABILITY (Explosive) LIMITS (% by volume in air):

Lower: N/A Upper: N/A
FLASHPOINT: 340°C (644°F)
MOLECULAR FORMULA: Mixture
MOLECULAR WEIGHT: NDA

MELTING POINT: 100°C (212°F) to 135°C (275°F)

OCTANOL/WATER PARTITION COEFFICIENT: log-Kow: NDA

pH: N/A

POUT POINT: NDA

SOLUBILITY (in water): Negligible SPECIFIC GRAVITY: 0.91 to 1.02

VAPOR PRESSURE: N/A

VAPOR DENSITY (AIR=1): N/A

VISCOSITY: N/A

PERCENT VOLATILE: NDA

STABILITY & REACTIVITY

CHEMICAL STABILITY: Considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY WITH OTHER MATERIALS: N/A May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.

HAZARDOUS POLYMERIZATION: Will not occur

TOXICOLOGICAL INFORMATION

Products contain polymerized olefins. During the thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes, ketones and organic acids), which are irritating to the mucous membranes of the eyes, mouth, throat and lungs. Decomposes under normal conditions.

DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable local and national regulations.

TRANSPORTATION INFORMATION

HAZARDOUS MATERIAL PROPER SHIPPING NAME: Not regulated by DOT

SPECIAL HANDLING OR SHIPPING PRECAUTIONS: None

HAZARD CLASS: Nonhazardous
UN IDENTIFICATION NUMBER: None

ECOLOGICAL INFORMATION

NDA

REGULATORY INFORMATION

NFPA RATINGS

Health: 0 Flammability: 1 Reactivity: 0 Special: N/A

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE: Personal Protection Equipment Index recommendation, Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

DISCLAIMER: REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS INFORMATION, BUT THE MANUFACTURER MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO THIS INFORMATION. THE MANUFACTURER MAKES NO REPRESENTATIONS AND ASSUMES NO LIABILITY FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM USE.



AN AFFILIATE OF MEYER ENTERPRISES, LLC 401 TRUCK HAVEN ROAD, EAST PEORIA, IL 61611 PHONE: 309.698.0062 / FAX: 309.698.0065



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

X-TREME® PRODUCT NAME

PRODUCT MANUFACTURER TEX-TRUDE, LP

P.O. Box 58

CHANNELVIEW, TEXAS 77530

PHONE: 281.452.5961 (8:00 AM - 5:00 PM CST)

PRODUCT DESCRIPTION ODORLESS BLUE FILM

CHEMICAL NAME POLYETHYLENE

CHEMICAL FAMILY ETHYLENE-BASED POLYMER

2. COMPOSITION / INFORMATION ON INGREDIENTS

(THIS PRODUCT IS NOT HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. TYPICAL COMPOSITION IS STATED HERE AND MAY VARY.)

WEIGHT PERCENT

>0 - 95 %

D -- <95%

COMPONENT

POLYETHYLENE

LINEAR LOW DENSITY

POLYETHYLENE

< 1 □% Modifiers / Additives CAS REGISTRY NUMBER

9002-88-4

25213-02-9

PROPRIETARY

3. HAZARDS IDENTIFICATION

(CAUTION: MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS.)

HMIS* HAZARD	RATING
HEALTH	
FLAMMABILITY	1
CHEMICAL REACTIVITY	

HMIS* RATING INVOLVES DATA INTERPRETATIONS THAT MAY VARY FROM COMPANY TO COMPANY. THEY ARE ONLY INTENDED FOR RAPID, GENERAL IDENTIFICATION OF THE MAGNITUDE OF THE SPECIFIC HAZARD. TO DEAL PROPERLY WITH THE SAFE HANDLING OF THIS MATERIAL, ALL THE INFORM-ATION CONTAINED IN THIS MSDS MUST BE CONSIDERED.

4. FIRST AID MEASURES

INHALATION IN CASE OF ADVERSE EXPOSURE TO VAPORS AND / OR

> AEROSOLS FORMED AT ELEVATED TEMPERATURES, REMOVE AFFECTED VICTIM FROM EXPOSURE.

EYES PRODUCT IS AN INERT SOLID. IF PRODUCT IS IN THE EYE,

REMOVE IMMEDIATELY.

SKIN IF EXPOSED TO HOT PRODUCT, IMMEDIATELY IMMERSE IN OR

FLUSH WITH LARGE AMOUNTS OF COLD WATER TO DIS

SIPATE HEAT.

INGESTION FIRST AID IS NORMALLY NOT REQUIRED. MATERIAL IS NOT

> EXPECTED TO BE ABSORBED FROM THE GASTROINTEST-INAL TRACT. INDUCTION OF VOMITING SHOULD

NOT BE NECESSARY.



NOTE TO PHYSICIANS: BURNS SHOULD BE TREATED AS THERMAL BURNS. COVER WITH CLEAN COTTON SHEETING OR GAUZE. DO NOT ATTEMPT TO REMOVE MATERIAL FROM SKIN OR TO REMOVE CONTAMINATED CLOTHING AS THE DAMAGED FLESH CAN BE EASILY TORN.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA WATER SPRAY; DRY CHEMICAL

SPECIAL FIRE FIGHTING PROTECTION WEAR SELF-CONTAINED BREATHING APPARATUS AND

PROTECTIVE CLOTHING.

HAZARD COMBUSTION PRODUCTS CARBON DIOXIDE; CARBON MONOXIDE

Unusual Fire / Explosion Hazards Powdered material may form explosive dust-air

MIXTURES.

6. ACCIDENTAL RELEASE MEASURES

NOT APPLICABLE

7. HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION

YES, USE PROPER BONDING AND /OR

GROUNDING

STORAGE TEMPERATURE OF AMBIENT

STORAGE / TRANSPORT PRESSURE MMHG ATMOSPHERIC

LOADING / UNLOADING VISCOSITY CST SOLID

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS NOT APPLICABLE

PERSONAL PROTECTION FOR OPEN SYSTEMS AT AMBIENT TEMPERATURE (-18° - 38°

C), WEAR SAFETY GLASSES WHEN CONTACT IS LIKELY. WHEN CONTACT MAY OCCUR WITH HOT MATERIAL, WEAR THERMAL RESISTANT GLOVES, ARM PROTECTION, AND A

FACE SHIELD.

WORKPLACE EXPOSURE GUIDELINES OSHA REGULATIONS 29 CFR 1910.1000 REQUIRES THE

PERMISSIBLE EXPOSURE LIMITS OF 5 MG/M³
(RESPIRABLE DUST), AND 15 MG/M³ (TOTAL DUST)
BASED ON THE OSHA PEL FOR NUISANCE DUST.

THE RECOMMENDED PERMISSIBLE EXPOSURE LEVELS INDICATED ABOVE REFLECT THE LEVELS REVISED BY OSHA IN 1989 OR IN SUBSEQUENT REGULATORY ACTIVITY. ALTHOUGH THE 1989 LEVELS HAVE SINCE BEEN VACATED BY THE 11TH CIRCUIT COURT OF APPEALS, TEX-TRUDE RECOMMENDS THAT THE LOWER EXPOSURE LEVELS BE OBSERVED AS REASONABLE PROTECTION OF ITS WORKERS.



9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM SOLID

COLOR BLUE

ODOR ODORLESS

SPECIFIC GRAVITY °F <1.0

SOLUBILITY IN WATER INSOLUBLE

SOFTENING POINT °C <130

FLASH POINT NOT APPLICABLE

FREEZE / MELTING POINT "F 245 - 256 "F

10. STABILITY AND REACTIVITY

STABLE

CONDITIONS TO AVOID INSTABILITY TEMPERATURES >650 °F (343 °C)

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

PLEASE REFER TO SECTION 3, HAZARDS IDENTIFICATION, FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

12. ECOLOGICAL INFORMATION

THERE IS NO SPECIFIC ECOLOGICAL DATA AVAILABLE REGARDING THIS PRODUCT.

13. DISPOSAL CONSIDERATIONS

DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS.

14. TRANSPORT INFORMATION

THE PRODUCT MANUFACTURED BY TEX-TRUDE, LP IS NOT A REGULATED SUBSTANCE UNDER THE DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS. ALL HAZARDOUS COMPONENTS OF THIS MATERIAL (IF ANY) ARE ENCAPSULATED AND THEREFORE PROVIDE NO TRANSPORTATION THREAT.

IMPORTANT NOTE: SHIPPING DESCRIPTIONS MAY VARY BASED ON MODE OF TRANSPORT,
QUANTITIES, PACKAGE SIZE, AND/OR ORIGIN AND DESTINATION. CONSULT YOUR COMPANY'S
EXPERT FOR INFORMATION SPECIFIC TO YOUR SITUATION.



15. REGULATORY INFORMATION

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

16. OTHER INFORMATION

NOTICE:

- THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN. HOWEVER, NO WARRANTY, IMPLIED OR EXPRESSED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYERS' RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE FOLLOWING INFORMATION IS SUBMITTED FOR THE SOLE PURPOSE OF ATTEMPTING TO BE IN COMPLIANCE WITH NUMEROUS FEDERAL, STATE, AND LOCAL DIRECTIVES. PLEASE VISIT OTHER SECTIONS OF THIS DOCUMENT FOR RELATIVE SAFETY AND HEALTH CONCERNS.
- SARA 313 INFORMATION: PRODUCT MANUFACTURED BY TEX-TRUDE CONTAINS NO CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION REQUIREMENTS. TEX-TRUDE STATES THIS TO THE BEST OF ITS UNDERSTANDING.
- SARA HAZARD CATEGORY: PRODUCT MANUFACTURED BY TEX-TRUDE HAS BEEN REVIEWED IN ACCORDANCE WITH EPA HAZARD CATEGORIES (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE CONDITIONS TO MEET THE FOLLOWING CATEGORIES: NOT TO HAVE MET ANY HAZARD CATEGORY.
- TOXIC SUBSTANCES CONTROL ACT (TSCA): TEX-TRUDE HAS PUT ALL NECESSARY INGREDIENTS ON THE TSCA INVENTORY.
- STATE RIGHT-TO-KNOW: THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY SUBSTANCES SUBJECT TO DISCLOSURE REQUIREMENTS OF NEW JERSEY, PENNSYLVANIA, AND CALIFORNIA.
- OSHA HAZARD COMMUNICATION STANDARD: TEX-TRUDE'S MANUFACTURED CONSTRUCTION FILM IS NOT A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

EFFECTIVE JUNE 1, 2009



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: HYDRALASTIC™ 836 Part Number: 6506005

Manufacturer: W. R. MEADOWS, INC. Address: 300 Industrial Drive

Hampshire, Illinois 60140

Telephone: (847) 214-2100 In case of emergency, dial (800) 424-9300 (CHEMTREC)

Revision Date: 4/3/2019

Product Use: Moisture Cure Sealant

HMIS HAZARD STATEMENTS

|Health| |1| WARNING!
|Flammability| |0| Causes skin irritation.

|Reactivity| |0| PRECAUTIONARY STATEMENTS

|Personal Protection| | Avoid direct contact.

SECTION 3: HAZARDS COMPONENTS

		% by	SARA	Vapor Pressure	LEL
Chemical Name :	CAS Number	Weight	<u>313</u>	(mm Hg@20°C)	(@24°C)
1. Petroleum Asphalt	8052-42-4	Proprietary	No	N/A	NA
2. Amino Silane	1760-24-3	1-5	No	N/A	NA

N/A = Not Applicable

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If irritation or redness develops, move victim away from exposure source and into fresh air. Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected area(s) with Ethyl Alcohol, then wash with soap and water.

INHALATION: An unlikely exposure route. If symptoms develop, seek medical attention.

INGESTION: An unlikely route of exposure. If ingested, consult a physician or poison control center.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: Not applicable.

EXTINGUISHING MEDIA: Use water fog, foam, dry chemicals, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, hydrogen sulfide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up, which could result in container rupture. Fire responders should wear full protective equipment including a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: LARGE SPILLS>>Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress. Contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent, such as clay, sand, or other suitable material. Place in non-leaking containers for proper disposal. Flush area with water to remove trace residue. Dispose of flush solutions as above. SMALL SPILLS>>Take up with an absorbent material and place in non-leaking containers. Seal tightly for proper disposal.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. Use appropriate personal protective equipment.

SAFE STORAGE: Store in cool, dry location. Avoid sources of moisture.

	OSHA				ACGIH			
Chemical Name:	<u>PEL</u>	PEL/CEILING	PEL/STEL	<u>SKIN</u>	<u>TLV</u>	TLV/CEILING	TLV/STEL	<u>SKIN</u>
1. Petroleum Asphalt	5 mg/m ³ *	N/E	N/E	N/E	5 mg/m ³ *	N/E	N/E	N/E
2. Amino Silane	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
					*: Asphalt fumes N/E: Not Established			

SAFETY DATA SHEET

Date of Preparation: 4/3/19 Page 2 of 2 6506005

Section 8 continued

ENGINEERING CONTROLS: None normally required.

PERSONAL PROTECTIVE EQUIPMENT: Wear safety glasses/goggles and chemical-resistant gloves. Respiratory protection is not

normally required. Avoid direct contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not Established VAPOR DENSITY: >1 (air = 1) % VOLATILE BY VOLUME: Not Established (Theoretical) EVAPORATION RATE: Not Established pH LEVEL: Not Applicable % VOLATILE BY WEIGHT: Not Established (Theoretical)

WEIGHT PER GALLON: 10.80 (Theoretical) PRODUCT APPEARANCE: Brown Paste VOC CONTENT: 36 g/L

ODOR: None ODOR THRESHOLD: N/D MELTING/FREEZING POINT: N/D

FLASH POINT: See Section 5FLAMMABILITY: N/DUEL/LEL: N/DVAPOR PRESSURE: N/DRELATIVE DENSITY: N/DSOLUBILITY: N/D

PARTITION COEFFICENT: N/D

AUTOIGNITION TEMPERATURE: N/D

DECOMPOSITION TEMPERATURE: N/D

N/D: Not Determined

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Avoid oxidizing materials and moisture.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Based on the presence of component 2, this product may cause severe eye irritation and corneal injury.

SKIN CONTACT: Exposure may cause mild skin irritation. Prolonged or repeated contact may cause redness, drying, and cracking of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material. Based on the presence of components 1 and 2, prolonged or repeated contact may result in defatting and drying of the skin, which may result in dermatitis.

INHALATION: This is not anticipated to be an exposure pathway due to low product volatility.

INGESTION: Ingestion may cause irritation of the gastrointestinal tract and/or ulceration/burns in the throat and mouth. Based on the presence of component 2, ingestion may result in nausea, vomiting, diarrhea, and restlessness.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, and swelling. Symptoms of skin irritation include reddening, swelling and rash. Symptoms or respiratory irritation include runny nose, sore throat, abdominal pain, nausea, vomiting, and diarrhea. AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product. OTHER HEALTH EFFECTS: From skin painting studies in laboratory animals, it has been concluded that some asphalts may possess weak carcinogenic activity. This means that workers who practice poor personal hygiene, and who are repeatedly exposed by direct skin contact with petroleum asphalt over many years may potentially be at risk of developing skin cancer. Intermittent or occasional skin contact with petroleum asphalt is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this safety data sheet, are followed. In addition, asphalt vapors may contain polycyclic aromatic hydrocarbons, some of which are known to

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/A DEGRADABILITY: N/A BIOACCUMULATIVE POTENTIAL: N/A

SOIL MOBILITY: N/A OTHER ADVERSE EFFECTS: N/A

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Observe all federal, state, and local regulations regarding proper disposal.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT

UN NUMBER: None. HAZARD CLASS: None. PACKING GROUP: N/A

UN PROPER SHIPPING NAME: N/A

be carcinogenic.

ENVIRONMENTAL HAZARDS: None recognized. **BULK TRANSPORTATION INFORMATION:** None.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None recognized.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 4/3/2019 PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



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1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

FLAMMABLE.
IRRITANT.
Irritating to eyes and skin.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

State of matter: liquid Colour: black

Odour: strong, solvent-like

Potential health effects

Acute toxicity:

Virtually nontoxic after a single skin contact. Aspiration of petroleum distillates may cause chemical pneumonitis

Irritation / corrosion:

May cause slight irritation to the eyes. May cause slight irritation to the skin. May cause slight irritation to the respiratory tract. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

May cause severe damage to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization:

There is no evidence of a skin-sensitizing potential.

Chronic toxicity:

Carcinogenicity: The substance caused cancer in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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Potential environmental effects

Aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Degradation / environmental fate:

Poorly biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Hazardous ingredients
14807-96-6	>= 15.0 - <= 40.0 %	talc
8052-41-3	>= 7.0 - <= 13.0 %	Stoddard solvent
1305-78-8	>= 5.0 - <= 10.0 %	calcium oxide
64742-95-6	>= 3.0 - <= 7.0 %	solvent naphtha
95-63-6	>= 1.0 - <= 5.0 %	1,2,4-trimethylbenzene
98-82-8	>= 0.1 - <= 1.0 %	cumene

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point: 48.89 °C (ASTM D93)

Lower explosion limit: 0.9 %(V)
Upper explosion limit: 7.0 %(V)
Flammability: Flammable.

Suitable extinguishing media:

dry powder, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

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Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Containers may rocket or explode in heat of fire. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid prolonged inhalation. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Notify proper authorities. Do not discharge into drains/surface waters/groundwater. Substance/product is RCRA hazardous due to its properties.

Cleanup:

For large amounts: Pump off product.

For residues: Pick up with inert absorbent material (e.g. sand, earth etc.). Correctly dispose of recovered product immediately.

7. Handling and Storage

Handling

General advice:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Provide good room ventilation even at ground level (vapours are heavier than air).

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Storage

General advice:

Keep container tightly closed and in a well-ventilated place. Keep away from heat. Avoid all sources of ignition: heat, sparks, open flame.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

Stoddard solvent OSHA PEL 500 ppm 2,900 mg/m3 ; ACGIH TWA value 100 ppm ;

1,2,4-trimethylbenzene

ACGIH TWA value 25 ppm;

cumene OSHA PEL 50 ppm 245 mg/m3; Skin Designation;

The substance can be absorbed through the skin.

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ACGIH TWA value 50 ppm; calcium oxide OSHA PEL 5 mg/m3; ACGIH TWA value 2 mg/m3;

talc OSHA TWA value 20 millions of particles per cubic foot of air ;

TWA value 2.4 millions of particles per cubic foot of air

Respirable:

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

TWA value 0.1 mg/m3 Respirable;

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

TWA value 0.3 mg/m3 Total dust;

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

ACGIH TWA value 2 mg/m3 Respirable fraction;

The value is for particulate matter containing no asbestos

and <1% crystalline silica.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

Body protection:

light protective clothing

General safety and hygiene measures:

Avoid inhalation of dusts/mists/vapours. Avoid contact with the skin, eyes and clothing. Avoid prolonged and/or repeated contact with the skin. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: viscous

Odour: strong, solvent-like Odour threshold: No data available.

Colour: black

pH value: neutral to slightly alkaline

Boiling point: 153.33 - 371.11 °C

Density: approx. 1.3 g/cm3 (approx. 20 °C)

Relative density: 1.3

Bulk density: 1,800 - 2,400

kg/m3

Vapour density: Heavier than air.
Solubility in water: (20 °C) slightly soluble
Miscibility with water: (20 °C) not soluble

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

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10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Vapours may form explosive mixture with air. No decomposition if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

11. Toxicological information

Acute toxicity

Information on: Stoddard solvent Assessment of acute toxicity:

Aspiration may result in chemical pneumonitis, which may be fatal.

Information on: calcium oxide Assessment of acute toxicity:

The toxicity of the product is based on its corrosivity.

Of moderate toxicity after single ingestion.

Information on: 1,2,4-trimethylbenzene

Assessment of acute toxicity:

Of low toxicity after single ingestion. Of moderate toxicity after short-term inhalation. EU-classification

Irritation / corrosion

Information on: calcium oxide
Assessment of irritating effects:
Corrosive! Damages skin and eyes.

Information on: 1,2,4-trimethylbenzene Assessment of irritating effects: Irritating to eyes and skin.

Information on: cumene Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes. Causes temporary irritation of the respiratory tract.

Sensitization

Information on: calcium oxide Assessment of sensitization:

The substance did not cause skin sensitization in humans.

Repeated dose toxicity

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Information on: Stoddard solvent
Assessment of repeated dose toxicity:

Overexposure may cause liver and kidney toxicity. Repeated exposures may result in pulmonary congestion.

Information on: 1,2,4-trimethylbenzene Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects. Investigations using experimental animals show that the material can cause lung tissue changes following inhalation.

Carcinogenicity

Information on: solvent naphtha

The substance caused cancer in animal studies.

Aspiration Hazard:

May also damage the lung at swallowing (aspiration hazard).

Other Information:

The product has not been tested. Avoid exposure.

Information on: Stoddard solvent

In tests with mammals a central nervous system disorder was observed.

12. Ecological Information

Other adverse effects:

Do not discharge product into the environment without control. The product has not been tested.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

TDG

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

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Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Marine pollutant: NO
Proper shipping name: PAINT

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: B3: Combustible Liquid

D2A: Materials Causing Other Toxic Effects - Very toxic

materia

D2B: Materials Causing Other Toxic Effects - Toxic

material







THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations msds@basf.com BASF HOTLINE (800) 454 – COPE (2673) MSDS Prepared on: 2012/11/14

Revision date : 2012/11/14 Page: 8/8
Version: 1.1 (30605722/SDS_GEN_CA/EN)

END OF DATA SHEET



Revision Date 02/09/2016

1. Identification

Product name : Greenstreak® PVC Waterstop

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.



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In case of skin contact

: Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : No hazards which require special first aid measures.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Refer to protective measures listed in sections 7 and 8.

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Follow standard hygiene measures when handling chemical

products.



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Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

Avoid breathing dust.

9. Physical and chemical properties

Appearance : film
Color : blue

Safety Data Sheet

Greenstreak® PVC Waterstop



Revision Date 02/09/2016

Odor : characteristic

Odor Threshold : No data available

Flash point : Note: Not applicable

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Freezing point

Boiling point/boiling range : No data available

Vapor pressure : No data available

Density : 1.36 g/cm3

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

0 g/l

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

Conditions to avoid

: Stable under recommended storage conditions.

: No data available



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Incompatible materials : No data available

11. Toxicological information

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.



Revision Date 02/09/2016

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).



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Print Date 04/28/2016

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 02/09/2016

Material number: 446509



Revision Date 05/31/2017

1. Identification

Product name : Swellstop SC Strip

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

For further information, refer to product data sheet.

Recommended use of the

chemical and restrictions on

use Water-Swellable sealant.

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.



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In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : No hazards which require special first aid measures.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Environmental precautions : Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.



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Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Limestone	1317-65-3	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction

^{*}The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA Po. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling



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the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

Avoid breathing dust.

9. Physical and chemical properties

Appearance : tacky solid

Color : black

Odor : faint, mild odor

Odor Threshold : No data available

Flash point : 610 °F (321 °C)

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Freezing point

No data available

Boiling point/boiling range : No data available

Vapor pressure : No data available

Density : 1.6 g/cm3



Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

0 g/l

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

: No data available

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions Conditions to avoid : Stable under recommended storage conditions.

Incompatible materials : No data available

11. Toxicological information

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

JINA

Print Date 06/01/2017

Revision Date 05/31/2017

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the



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Print Date 06/01/2017

TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

> known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion This product neither contains, nor was manufactured with a **Potential**

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 MARNING: Cancer – www.P65Warnings.ca.gov

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

Safety Data Sheet

Swellstop SC Strip



Revision Date 05/31/2017

Print Date 06/01/2017

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All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 05/31/2017

Material number: 536885