

# SAFETY DATA SHEET

Date Prepared: 10/29/2012

Date Modified: 07/03/2018

Date Printed: 12/13/2020

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### MATERIAL IDENTITY:

RockHardscp C.R.M.  
Part A (EPOXY)

### INFORMATION TELEPHONE:

(281) 797-0457

### COMPANY:

SolidCast Polymer Technology, LLC  
5422 Chapel Brook Dr.  
Houston, TX 77069

### EMERGENCY TELEPHONE:

CHEMTREC: 800-424-9300

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### OSHA HAZARDOUS

Target Organ Effect: Skin sensitizer, Irritant

Target Organs: Respiratory, Eyes, Skin

### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

| Health               |            | Environmental  | Physical       |
|----------------------|------------|----------------|----------------|
| Acute Toxicity, Oral | Category 5 | Not Classified | Not Classified |
| Skin Irritant        | Category 2 |                |                |
| Serious Eye Damage   | Category 1 |                |                |
| Skin Sensitization   | Category 1 |                |                |

Pictogram:



Signal Word      **Danger**

| Hazard Statements  | Precautionary Statements  |
|--|---|
| H303    Maybe harmful if swallowed<br>H315    Causes skin irritation<br>H317    May cause an allergic skin reaction<br>H318    Causes serious eye damage | P280    Wear protective gloves/protective clothing/eye protection/face protection<br>P305+P351+P338    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical Characterization:

| Ingredient(s)  | CAS Number | % (by weight) |
|--|------------|---------------|
| 2,2(1-methylethylidene)bis(4,1-phenyleneoxymethylene) bisoxirane | 1675-54-3  | 60 - 80 %     |
| Polyfunctional Epoxy   | 30499-70-8 | 5-20%         |
| Bisphenol F Epoxy  | 28064-14-4 | 1-5%          |

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## 4. FIRST AID MEASURES

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**Eyes Contact:** Get medical attention immediately. Immediately flush eyes gently with large amounts of water for at least 20-30 minutes. Retract eyelids often. Check for and remove any contact lenses.

**Skin Contact:** Get medical attention immediately. 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. May cause irritation and allergic reaction.

**Ingestion:** Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:** Move exposed person to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate make of self contained breathing apparatus. Keep person warm and at rest. If not breathing or breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway

**Advise to physicians:** Symptomatic and supportive therapy as needed. May aggravate skin conditions.

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## 5. FIRE FIGHTING MEASURES

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### Conditions of Flammability

Not flammable or combustible

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions – Carbon Oxides

### Fire Fighting Instructions

Do not enter fire area without proper protection. Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent. See Section 10 - decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray/fog for cooling.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. 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 (see section 8).

### Environmental Precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Notify authorities of any releases to sewers, soils, waterways or air.

### Methods and Materials for Containment and Cleaning Up

Stop the leak if it can be done without risk. Move containers from the spill area. Prevent entry into sewers, water ways or soils. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth. Place in container for disposal according to local regulations via a licensed waste disposal contractor. Contaminated absorbent materials may pose the same hazards as the spilled product. See section 1 for emergency contact information and section 13 for waste disposal.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

Can cause skin and eye irritation and allergic skin reaction.

Put on appropriate personal protective equipment (see section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 not reuse container.

### Conditions for Safe Storage

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. 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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMITS

| HAZARDOUS COMPONENT  | PEL | STEL | TLV | Other |
|--|-----|------|-----|-------|
| 2,2(1-methylethylidene)bis(4,1-phenyleneoxymethylene) bisoxirane | NE  | NE   | NE  | NE    |
| p-tert Butyl Phenyl Glycidyl Ether                               | NE  | NE   | NE  | NE    |
| Polyfunctional Epoxy   | NE  | NE   | NE  | NE    |

### Engineering Controls

Use local exhaust ventilation to maintain airborne concentrations below exposure limits. Respiratory protection may be required in addition to general room ventilation.

### Respiratory Protections

Use a properly fitted, air-purifying or air supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards or the product and the safe working limits of the selected respirator.

### Eye Protection

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

### Skin and Body Protection

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene or rubber. Use of barrier cream is recommended. Clean equipment thoroughly after each use.

### Other hygienic practices

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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## OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                   |                           |
|-----------------------------------|---------------------------|
| Appearance                        |                           |
| Form                              | Liquid                    |
| Color                             | Colorless to Amber        |
| pH                                | Not available             |
| Melting/Freezing Temperature      | 40 C/ 104 F               |
| Boiling Point                     | 336 C/ 637 F              |
| Flash Point                       | > 95 C/ 200 F             |
| Ignition Temperature              | Not available             |
| Autoignition Temperature          | Not available             |
| Lower explosive limit; na         | Upper explosive limit: na |
| Vapor Pressure                    | <0.1 mm Hg                |
| Vapor Density (air=1)             | Not available             |
| Specific Gravity (water=1 @39.2F) | 1.14 at 25 C/77F          |
| Evaporation Rate (Bac=1)          | None                      |
| Odor                              | Light possible phenol     |
| Odor threshold                    | Not available             |

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## 10. STABILITY AND REACTIVITY

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### Chemical Stability

Stable under recommended storage conditions

### Possibility of Hazardous Reactions

No data available

### Conditions to Avoid

Avoid strong acids, bases in bulk and elevated temperatures

### Materials to Avoid

Reactive or incompatible with: acids, oxidizers, amines

### Hazardous Decomposition Products

Decomposition products formed under fire conditions may include: Carbon oxides, Nitrogen oxides, Aldehydes.

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## 11. TOXICOLOGY INFORMATION

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### Toxicity Data

#### Acute Toxicity

|                 |                   |               |
|-----------------|-------------------|---------------|
| Oral LD50       | Rat               | > 4000 mg/kg. |
| Dermal LD50     | Rabbit            | 20,000 mg/kg  |
| Inhalation LC50 | No data available |               |

#### Skin Corrosion/Irritation

|      |          |
|------|----------|
| Skin | Irritant |
|------|----------|

#### Serious Eye Damage/Eye Irritation

|      |          |                              |
|------|----------|------------------------------|
| Eye  | Irritant |                              |
| Eyes | Rabbit   | Severe eye irritation – 24 H |

#### Respiratory or Skin Sensitization

May cause skin or respiratory sensitization

#### Mutagenicity

|                                |      |
|--------------------------------|------|
| Mouse                          | Skin |
| Carcinogenic by RTECS Criteria |      |
| liver, ovarian, thyroid        |      |

#### Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

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## 12. ECOLOGICAL INFORMATION

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### Aquatic Ecotoxicity

No data available

### Biodegradability

|            |                           |
|------------|---------------------------|
| Persistent | Not readily biodegradable |
|------------|---------------------------|

### Mobility in soil

No data available

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## 13. DISPOSAL CONSIDERATIONS

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### Waste Disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# RockHardscp C.R.M. Hardener

## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Identification

Product name : Novoxy 60 Hardener

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

Product use : Manufacturing

#### 1.3. Details of the supplier of the safety data sheet

Andara LLC  
3687 Enterprise Dr.  
Sheboygan, WI 53083

#### 1.4. Emergency telephone number

Emergency number : 281-797-0457

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Acute Tox. 4 (Oral) H302  
Eye Dam. 1 H318  
Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS05

GHS07

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302 - Harmful if swallowed  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face 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  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell  
P302+P352 - If on skin: Wash with plenty of water  
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 or doctor  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P330 - Rinse mouth.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name  | Product identifier   | %            | GHS US classification  |
|---|----------------------|--------------|--|
| Phenol, styrenated  | (CAS-No.) 61788-44-1 | Trade Secret | Not classified   |
| Poly[oxy(methyl-1,2-ethanediy)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) | (CAS-No.) 39423-51-3 | Trade Secret | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Eye Dam. 1, H318<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-  | (CAS-No.) 2855-13-2  | Trade Secret | Acute Tox. 4 (Oral), H302  |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Call a poison center/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.  |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. 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. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.  |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.              |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

### 5.2. Special hazards arising from the substance or mixture

|            |  |
|------------|--|
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |
|------------|--|

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. |
|----------------------|---|

#### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material.                 |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.



## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.   |
| Hygiene measures              | : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                    |  |
|--------------------|--|
| Storage conditions | : Store in a well-ventilated place. Keep cool. |
|--------------------|--|

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |
|--|
| <b>Phenol, styrenated (61788-44-1)</b>   |
| Not applicable   |
| <b>Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3)</b> |
| Not applicable   |
| <b>Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)</b>  |
| Not applicable   |

### 8.2. Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station.                              |
| Hand protection                  | : Protective gloves.  |
| Eye protection                   | : Safety glasses.   |
| Skin and body protection         | : Wear suitable protective clothing.  |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| Environmental exposure controls  | : Avoid release to the environment.   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                          |
|---|--------------------------|
| Physical state                              | : Liquid                 |
| Color                                       | : Very pale light yellow |
| Odor  | : Amine-like             |
| Odor threshold                              | : No data available      |
| pH  | : 10.9                   |
| Melting point                               | : Not applicable         |
| Freezing point                              | : No data available      |
| Boiling point                               | : 247 °C                 |
| Flash point                                 | : 182 °C                 |
| Relative evaporation rate (butyl acetate=1) | : No data available      |
| Flammability (solid, gas)                   | : Not applicable.        |
| Vapor pressure                              | : No data available      |
| Relative vapor density at 20 °C             | : No data available      |
| Relative density                            | : No data available      |
| Specific gravity / density                  | : 1.03                   |
| Solubility                                  | : No data available      |
| Log Pow                                     | : No data available      |
| Auto-ignition temperature                   | : No data available      |
| Decomposition temperature                   | : No data available      |
| Viscosity, kinematic                        | : No data available      |
| Viscosity, dynamic                          | : No data available      |

Explosion limits : No data available  
 Explosive properties : No data available  
 Oxidizing properties : No data available

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>Novoxy 60 Hardener</b>  |                                 |
|--|---------------------------------|
| ATE US (oral)  | 864.93 mg/kg body weight        |
| <b>Phenol, styrenated (61788-44-1)</b>   |                                 |
| LD50 oral rat  | 2100 - 6700 mg/kg               |
| LD50 dermal rabbit   | > 7940 mg/kg                    |
| LC50 inhalation rat (mg/l)   | > 2.5 mg/l (Exposure time: 6 h) |
| ATE US (oral)  | 2100 mg/kg body weight          |
| <b>Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3)</b> |                                 |
| ATE US (oral)  | 500 mg/kg body weight           |
| ATE US (dermal)  | 1100 mg/kg body weight          |
| <b>Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)</b>  |                                 |
| LD50 oral rat  | 1030 mg/kg                      |
| ATE US (oral)  | 1030 mg/kg                      |

Skin corrosion/irritation : Not classified  
 pH: 10.9

Serious eye damage/irritation : Causes serious eye damage.  
 pH: 10.9

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

|                                     |  |
|-------------------------------------|--|
| Aspiration hazard                   | : Not classified                       |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.              |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
|-------------------|--|

#### Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

|                |   |
|----------------|---|
| EC50 Daphnia 1 | 14.6 - 21.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static]) |
|----------------|---|

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

#### Phenol, styrenated (61788-44-1)

|         |                |
|---------|----------------|
| Log Pow | > 4 (at 22 °C) |
|---------|----------------|

#### Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

|         |                 |
|---------|-----------------|
| Log Pow | 0.79 (at 23 °C) |
|---------|-----------------|

#### 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 treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|-------------------------|---|

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### Phenol, styrenated (61788-44-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                          |   |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
|--------------------------|---|

## Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. US State regulations

## Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Full text of H-phrases:

|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 2       | Hazardous to the aquatic environment - Acute Hazard Category 2   |
| Aquatic Chronic 2     | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Eye Dam. 1            | Serious eye damage/eye irritation Category 1                     |
| Skin Sens. 1          | Skin sensitization, Category 1                                   |
| H302                  | Harmful if swallowed   |
| H312                  | Harmful in contact with skin                                     |
| H317                  | May cause an allergic skin reaction                              |
| H318                  | Causes serious eye damage  |
| H401                  | Toxic to aquatic life  |
| H411                  | Toxic to aquatic life with long lasting effects                  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **RockHardscp™ C.R.M. -Part C**

**Other means of identification** : Not available.

**Recommended use of the chemical and restrictions on use**

: Resin component.  
Recommended restrictions: Do not use for sandblasting.

**Chemical family**

: Inorganic silicon compound

**Name, address, and telephone number of the supplier:**

**Solid Cast Polymer Technology**

5422 Chapel Brook Drive  
Houston, TX, USA  
77069

Supplier's Telephone # : (281) 797 0457

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**24 Hr. Emergency Tel #** : Not available.

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Crystalline solid Odourless.

Most important hazards: Do not breathe dust or fume. May cause cancer by inhalation.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Hazard classification**

Carcinogenicity - Category 1

Specific target organ toxicity, single exposure - Category 1

Specific Target organ toxicity, repeated exposure- Category 1

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

**DANGER!**

*Hazard statement(s)*

May cause cancer.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

Obtain special instructions before use.

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

Do not breathe dust or fume.

Wash thoroughly after handling.

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

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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Dispose of contents/container in accordance with local regulation.

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*Precautionary statement(s)*

### Other hazards

Other hazards which do not result in classification Dust contact with the eyes can lead to mechanical irritation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| <u>Chemical name</u> | <u>Common name and synonyms</u>               | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|----------------------|---|--------------|------------------------------------|
| Silica, quartz       | Quartz silica<br>Crystallized silicon dioxide | 14808-60-7   | 80.0 - 100.0                       |

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Never give anything by mouth if victim is unconscious. Have victim rinse mouth with water, then give one to two glasses of water to drink. If symptoms develop, seek medical attention.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If not breathing, clear airway and start artificial respiration. Seek immediate medical attention/advice.
- Skin contact* : Wash affected areas with soap and water. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists: get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

- : May cause cancer. Causes damage to the lungs and respiratory system if inhaled. Causes damage to the lungs and respiratory system through prolonged or repeated exposure if inhaled. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment. Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging, tearing, redness and swelling.

#### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

*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.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Not flammable.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

#### Hazardous combustion products

- : None known.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*

- : Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.

*Special fire-fighting procedures*

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- : The product itself does not burn. The area should be evacuated and all personnel kept upwind. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Fight fires from a safe distance. Water spray may be useful in cooling equipment exposed to heat and flame.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- : Evacuate personnel to safe areas. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to point 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : None required under normal conditions.

**Methods and material for containment and cleaning up**

- : Ventilate area of release. Stop the spill at source if it is safe to do so. Avoid dust formation. Vacuum or sweep up using wet methods and place in an appropriate waste disposal container

**Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): None reported.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling**

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Use in a well-ventilated area. Do not breathe dust. Avoid contact with eyes, skin and clothing. Keep away from acids and incompatibles. Avoid and control operations which create dust. Keep containers closed when not in use. Wash thoroughly after handling.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. No smoking in the area. Do not store near acids or other incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect against physical damage.

**Incompatible materials** : Acids, Aluminum, Oxidizing agents, Reactive metals

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

| <u>Exposure Limits:</u> |   |             |  |             |
|-------------------------|---|-------------|--|-------------|
| <u>Chemical Name</u>    | <u>ACGIH TLV</u>                        |             | <u>OSHA PEL</u>  |             |
|                         | <u>TWA</u>                              | <u>STEL</u> | <u>PEL</u>   | <u>STEL</u> |
| Silica, quartz          | 0.025 mg/m <sup>3</sup><br>(respirable) | N/Av        | 0.1 mg/m <sup>3</sup><br>(respirable) (final rule limit) | N/Av        |

**Exposure controls**

**Ventilation and engineering measures**

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection**

- : Respiratory protection is required if the concentrations exceed the TLV. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.

**Skin protection**

**Eye / face protection**



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- : Wear protective gloves/clothing. Impervious gloves must be worn when using this product.  
Advice should be sought from glove suppliers.
- : Chemical goggles must be worn to prevent dusts from entering the eyes.

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**Other protective equipment** : An eyewash station should be made available in the immediate working area. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.

**General hygiene considerations**

: Avoid contact with eyes, skin and clothing. Do not breathe vapours/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing, and shower with mild soap and water to remove dusts, at end of each work shift.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Crystalline powder  
**Odour** : No odour.

**Odour threshold** : N/Av  
**pH** : N/Av  
**Melting Point/Freezing point** : 1710°C (3110°F)

**Initial boiling point and boiling range**

: 2230°C (4046°F)

**Flash point** : N/Av  
**Flashpoint (Method)** : N/Av

**Evaporation rate (BuAe = 1)** : N/Av

**Flammability (solid, gas)** : Not applicable.  
**Lower flammable limit (% by vol.)** : N/Av

**Upper flammable limit (% by vol.)** : N/Av

**Oxidizing properties** : None.

**Explosive properties** : Not explosive  
**Vapour pressure** : N/Av  
**Vapour density** : N/Av

**Relative density / Specific gravity**

: 2.65

**Solubility in water** :  
**Other solubility(ies)** : N/Av

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av

**Auto-ignition temperature** : N/Av

**Decomposition temperature** : N/Av  
**Viscosity** : N/Av (solid)  
**Volatiles (% by weight)** : N/Av

**Volatile organic Compounds (VOC's)** : N/Av

**Absolute pressure of container**

: N/Av

**Flame projection length** : N/Av

**Other physical/chemical comments**

: None known or reported by the manufacturer.

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### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

#### **Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid** : Avoid dust formation. Avoid contact with incompatible materials.

**Incompatible materials** : Acids; Aluminum; Oxidizing agents; Reactive metals

**Hazardous decomposition products**

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- : Respirable crystalline silica-containing dust may be generated. When heated, quartz is slowly transformed into tridymite (above 860°C/1580°F) and cristobalite (above 1470°C/2678°F). Both tridymite and cristobalite are other forms of crystalline silica. Refer to Section 5 for additional 'Hazardous combustion products'.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### **Information on likely routes of exposure:**

- Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES

- Routes of exposure skin absorption**  
 : NO

#### **Potential Health Effects:**

#### **Signs and symptoms of short-term (acute) exposure**

##### *Sign and symptoms Inhalation*

- : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis. Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.

##### *Sign and symptoms ingestion*

- : None expected, when used as intended.

##### *Sign and symptoms skin*

- : None expected, when used as intended.

##### *Sign and symptoms eyes*

- : Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging, tearing, redness and swelling.

#### **Potential Chronic Health Effects**

- : Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.

#### **Mutagenicity**

- : Not expected to be mutagenic in humans.

#### **Carcinogenicity**

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification Carcinogenic Category 1 May cause cancer.  
 This product contains Crystalline silica - Quartz. Crystalline silica - Quartz is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen).

#### **Reproductive effects & Teratogenicity**

- : Not expected to cause reproductive effects.

#### **Sensitization to material**

- : Contains no known skin or respiratory sensitizers.

#### **Specific target organ effects**

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:  
 Specific target organ toxicity, single exposure - Category 1  
 May cause damage to the lungs if inhaled.  
 Specific Target organ toxicity, repeated exposure- Category 1  
 May cause damage to the lungs through prolonged or repeated exposure if inhaled.

#### **Medical conditions aggravated by overexposure**

- : Pre-existing respiratory disorders.

#### **Synergistic materials**

- : None known or reported by the manufacturer.

#### **Toxicological data**

- : There is no available data for the product itself, only for the ingredients. See below for

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individual ingredient acute  
toxicity data.

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| <u>Chemical name</u> | LC <sub>50</sub> (4hr) | LD <sub>50</sub>   |                         |
|----------------------|------------------------|--------------------|-------------------------|
|                      | <u>inh. rat</u>        | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Silica, quartz       | N/Av                   | N/Av               | N/Av                    |

**Other important toxicological hazards**

: None reported by the manufacturer.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. Not expected to be harmful to aquatic organisms.

**Ecotoxicity data:**

| <u>Ingredients</u> | CAS No     | Toxicity to Fish       |               |          |
|--------------------|------------|------------------------|---------------|----------|
|                    |            | LC <sub>50</sub> / 96h | NOEC / 21 day | M Factor |
| Silica, quartz     | 14808-60-7 | N/Av                   | N/Av          | None.    |

| <u>Ingredients</u> | CAS No     | Toxicity to Daphnia    |               |          |
|--------------------|------------|------------------------|---------------|----------|
|                    |            | EC <sub>50</sub> / 48h | NOEC / 21 day | M Factor |
| Silica, quartz     | 14808-60-7 | N/Av                   | N/Av          | None.    |

| <u>Ingredients</u> | CAS No     | Toxicity to Algae             |                   |          |
|--------------------|------------|-------------------------------|-------------------|----------|
|                    |            | EC <sub>50</sub> / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Silica, quartz     | 14808-60-7 | N/Av                          | N/Av              | None.    |

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|-------------------|--|--------------------------------------|
|-------------------|--|--------------------------------------|

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: None known.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Handling for Disposal**

: Handle waste according to recommendations in Section 7.

**Methods of Disposal**





: Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA**

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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**SECTION 14. TRANSPORT INFORMATION**

| Regulatory Information                  | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label   |
|---|-----------|-------------------------|----------------------------|---------------|---|
| TDG                                     | None      | Not regulated.          | Not regulated              | none          |    |
| <b>TDG Additional information</b>       | None.     |                         |                            |               |   |
| 49CFR/DOT                               | None      | Not regulated.          | Not regulated              | none          |    |
| <b>49CFR/DOT Additional information</b> | None.     |                         |                            |               |   |
| ICAO/IATA                               | None.     | Not regulated.          | not regulated              | none          |    |
| <b>ICAO/IATA Additional information</b> | None.     |                         |                            |               |   |
| IMDG                                    | None.     | Not regulated.          | not regulated              | none          |  |
| <b>IMDG Additional information</b>      | None.     |                         |                            |               |   |

**Special precautions for user** : None reported by the manufacturer.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: Not available.

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS #      | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372 Specific Toxic Chemical |                          |
|--------------------|------------|----------------|--|--|--|--------------------------|
|                    |            |                |  |  | Toxic Chemical   | de minimus Concentration |
| Silica, quartz     | 14808-60-7 | Yes            | None.  | None.  | No   | N/Ap                     |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Carcinogenicity; Specific target organ toxicity, single exposure ;Specific target organ toxicity, repeated exposure.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS #      | California Proposition 65 |  | State "Right to Know" Lists |     |     |     |     |     |
|--------------------|------------|---------------------------|--|-----------------------------|-----|-----|-----|-----|-----|
|                    |            | Listed                    | Type of Toxicity                               | CA                          | MA  | MN  | NJ  | PA  | RI  |
| Silica, quartz     | 14808-60-7 | Yes                       | Cancer (airborne particles of respirable size) | No                          | Yes | Yes | Yes | Yes | Yes |

### Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): All ingredients are listed on the DSL, or are exempted materials.

### International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | CAS #      | European EINECS | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|--------------------|------------|-----------------|----------------|-------------------|------------|-----------------|-------------|----------------|
| Silica, quartz     | 14808-60-7 | 238-878-4       | Present        | Present           | (1)-548    | KE-29983        | Present     | HSR003125      |

## SECTION 16. OTHER INFORMATION

### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 DSL: Domestic Substances List  
 EPA: Environmental Protection Agency  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 MA: Massachusetts  
 MN: Minnesota  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 N/Av: Not Available  
 N/Ap: Not Applicable  
 NIOSH: National Institute of Occupational Safety and Health  
 NJ: New Jersey  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PA: Pennsylvania  
 PEL: Permissible exposure limit  
 RCRA: Resource Conservation and Recovery Act  
 RI: Rhode Island  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TSCA: Toxic Substance Control Act  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System



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- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for
  2. ECHA - European Chemical Agency
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
  4. Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists
  6. California Proposition 65 List
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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**Other special considerations for handling**

:

|   |   |
|---|---|
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