

**PRODUCT NAME:** ABRO Epoxy Steel Syringe - Resin  
**PRODUCT NUMBER/SIZE:** EG-330 / 30mL

**Revision Date:** 04/28/2015

## SECTION 1 Identification of the Substance and of the Company/Undertaking

**MANUFACTURER'S NAME:** ABRO INDUSTRIES, INC.

**ADDRESS:** 3580 Blackthorn Court  
South Bend, IN 46628  
USA

**PRODUCT DESCRIPTION:** Epoxy

**COMPANY PHONE:** 574-232-8289

**EMERGENCY 24-HR TELEPHONE:** Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

## SECTION 2 Hazards Identification

### Classification:

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1A

### Label Pictogram(s):



**Signal Word:** DANGER

**Hazard Phrases:** Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer.

**Precautionary Phrases:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF exposed or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). 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. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Storage / Disposal:** Store locked up. Dispose of contents/container to an approved waste disposal plant.

**Other:** Harmful to aquatic life with long lasting effects. Contains epoxy constituents with an average molecular weight of  $\leq 700$ .

Unknown acute toxicity: 23.5% of the mixture consists of ingredient(s) of unknown toxicity.

### SECTION 3 Composition/Information on Ingredients

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>Weight %</u>	<u>TRADE SECRET</u>
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN	25068-38-6	30 - 60%	*
IRON	7439-89-6	10 - 30%	*
LIMESTONE	1317-65-3	10 - 30%	*
SILICON	7440-21-3	1 - 5%	*
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	1 - 5%	*
CRYSTALLINE SILICA	14808-60-7	1 - 5%	*

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

### SECTION 4 First Aid Measures

#### Description of First Aid Measures

<b>General advice:</b>	Get medical advice/attention if you feel unwell.
<b>Eye contact:</b>	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.
<b>Skin contact:</b>	IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

Symptoms See section 2 for more information.

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

Note to physicians      Treat symptomatically.

**SECTION 5**  
**Fire Fighting Measures**

<b>Suitable extinguishing media:</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Foam
<b>Unsuitable extinguishing media:</b>	None.
<b>Specific hazards arising from the chemical:</b>	None in particular.
<b>Explosion data:</b>	Sensitivity to Mechanical Impact      None. Sensitivity to Static Discharge      None.
<b>Protective equipment and precautions for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6**  
**Accidental Release Measures**

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

<b>Personal precautions:</b>	Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

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

<b>Methods for containment:</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
<b>Prevention of secondary hazards:</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

**SECTION 7**  
**Handling and Storage**

**Precautions for Safe Handling**

<b>Advice on safe handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.
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**Conditions for safe storage, including any incompatibilities:**

<b>Storage Conditions:</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
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**Incompatible materials:** Strong oxidizing agents, Acids, Bases

## SECTION 8 Exposure Controls/Personal Protection

### Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
LIMESTONE 1317-65-3	-	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust
SILICON 7440-21-3	-	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 10 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction (vacated)	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust
CRYSTALLINE SILICA 14808-60-7	TWA: 0.025 mg/m3 respirable fraction	(vacated) TWA: 0.1 mg/m3 respirable dust : (30)/(%SiO <sub>2</sub> + 2) mg/m3 TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m3 TWA respirable fraction	IDLH: 50 mg/m3 respirable dust TWA: 0.05 mg/m3 respirable dust

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
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### Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin and body protection:	Wear protective gloves and protective clothing.
Respiratory protection:	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

## SECTION 9 Physical and Chemical Properties

Physical State:	Viscous liquid
Appearance:	Clear
Odor:	Mild

<b>Odor Threshold:</b>	No information available.
<b>pH:</b>	Neutral
<b>Melting Point/Freezing Point:</b>	No information available.
<b>Boiling Point/Boiling Range:</b>	No information available.
<b>Flash Point:</b>	> 93 °C / > 200 °F
<b>Evaporation rate:</b>	No information available.
<b>Flammability (solid, gas):</b>	No information available.
<b>Flammability Limit in Air</b>	
<b>Upper Flammability Limit:</b>	No information available.
<b>Lower Flammability Limit:</b>	No information available.
<b>Vapor pressure:</b>	No information available.
<b>Vapor density:</b>	>1      Air = 1
<b>Relative density:</b>	>1
<b>Water Solubility:</b>	No information available.
<b>Solubility in other solvents:</b>	No information available.
<b>Partition Coefficient:</b>	No information available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Kinematic Viscosity:</b>	No information available.
<b>Dynamic Viscosity:</b>	No information available.
<b>Exposive Properties:</b>	No information available.
<b>Oxidizing Properties:</b>	No information available.
<b>Other Information</b>	
<b>Softening point:</b>	No information available.
<b>Molecular weight:</b>	No information available.
<b>VOC Content (%):</b>	No information available.
<b>Density:</b>	No information available.
<b>Bulk density:</b>	No information available.

## SECTION 10 Stability and Reactivity

<b>Reactivity</b>	No data available.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	None under normal processing.
<b>Conditions to avoid:</b>	Excessive heat.
<b>Incompatible materials:</b>	Strong oxidizing agents, Acids, Bases
<b>Hazardous decomposition products:</b>	Carbon oxides Phenols

## SECTION 11 Toxicological Information

**Information on likely routes of exposure:**

<b>Inhalation:</b>	May cause irritation of respiratory tract.
<b>Eye contact:</b>	Contact with eyes may cause irritation. May cause redness and

tearing of the eyes.

**Skin contact:** May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

**Ingestion:** Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	= 11400 mg/kg ( Rat )	-	-
IRON 7439-89-6	= 984 mg/kg ( Rat )	-	-
SILICON 7440-21-3	= 3160 mg/kg ( Rat )	-	-
NEOPENTYL GLYCOL DIGLYCIDYL ETHER 17557-23-2	= 4500 mg/kg ( Rat )	-	-
CRYSTALLINE SILICA 14808-60-7	= 500 mg/kg ( Rat )	-	-

**Information on toxicological effects**

Symptoms No information available.

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

Sensitization No information available.

Germ cell mutagenicity No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Target Organ Effects:

Eyes, Lungs, Respiratory system, Skin.

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

ATEmix (oral) 2727 mg/kg

**SECTION 12**  
**Ecological Information**

**Ecotoxicity:**

30% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
IRON 7439-89-6	-	13.6: 96 h Morone saxatilis mg/L LC50 static	-

**Persistence and Degradability:** No information available.

**Bioaccumulation Potential:** No information available.

**Mobility:** No information available.

**Other Adverse Effects:** No information available.

**SECTION 13**  
**Disposal Considerations**

**Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Do not reuse container.

**US EPA Waste Number:** Not applicable.

**SECTION 14**  
**Transport Information**

<b>DOT</b>	Proper shipping name:	Not regulated
<b>IATA</b>	Proper shipping name:	Not regulated
<b>IMDG</b>	Proper shipping name:	Not regulated

**SECTION 15**  
**Regulatory Information**

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not Listed.
ENCS	Not Listed.
IECSC	Complies
KECL	Complies
PICCS	Not Listed.
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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

<b>Chemical Name</b>	<b>California Proposition 65</b>
CRYSTALLINE SILICA - 14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
LIMESTONE 1317-65-3	X	X	X
SILICON 7440-21-3	X	X	X
CRYSTALLINE SILICA 14808-60-7	X	X	X
ALUMINUM FLAKE 7429-90-5	X	X	X
TITANIUM 7440-32-6	X	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number: Not applicable

NFPA	Health hazards 2	Flammability 1	Instability 0	
HMS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association)  
HMS (Hazardous Material Information System)

## SECTION 16 Other Information

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. 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 use, 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.

**ABBREVIATIONS:**

NG="NOT GIVEN"	BT="BETWEEN"
<="LESS THAN"	>="GREATER THAN"
ND = Not Determined	NA = Not Applicable

**PRODUCT NAME:** ABRO Epoxy Steel Syringe - Hardener  
**PRODUCT NUMBER/SIZE:** EG-330 / 30mL

**Revision Date:** 04/28/2015

## SECTION 1 Identification of the Substance and of the Company/Undertaking

**MANUFACTURER'S NAME:** ABRO INDUSTRIES, INC.  
**ADDRESS:** 3580 Blackthorn Court  
South Bend, IN 46628  
USA  
**PRODUCT DESCRIPTION:** Epoxy  
**COMPANY PHONE:** 574-232-8289  
**EMERGENCY 24-HR TELEPHONE:** Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

## SECTION 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

Carcinogenicity

Category 1A

### Label Pictogram(s):



**Signal Word:** DANGER

**Hazard Phrases:** Harmful if swallowed. May cause cancer.

**Precautionary Phrases:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response:** IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage / Disposal:** Store locked up. Dispose of contents/container to an approved waste disposal plant.

**Other:** Harmful to aquatic life with long lasting effects.

Unknown acute toxicity: 98% of the mixture consists of ingredient(s) of unknown toxicity.

### SECTION 3 Composition/Information on Ingredients

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>Weight %</u>	<u>TRADE SECRET</u>
MERCAPTAN AMINE BLEND (TSRN 679485-6533P)	-	40 - 70%	*
LIMESTONE	1317-65-3	15 – 40%	*
CRYSTALLINE SILICA	14808-60-7	1 – 5%	*

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

### SECTION 4 First Aid Measures

#### Description of First Aid Measures

<b>General advice:</b>	Get medical advice/attention if you feel unwell.
<b>Eye contact:</b>	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.
<b>Skin contact:</b>	IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

Symptoms                      See section 2 for more information.

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

Note to physicians              Treat symptomatically.

### SECTION 5 Fire Fighting Measures

<b>Suitable extinguishing media:</b>	Carbon dioxide (CO2), Dry chemical, Foam
<b>Unsuitable extinguishing media:</b>	None.
<b>Specific hazards arising from the chemical:</b>	None in particular.

**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.

## SECTION 6 Accidental Release Measures

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

**Personal precautions:** Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

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

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

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

## SECTION 7 Handling and Storage

**Precautions for Safe Handling**

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:**

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials:** Strong oxidizing agents, Acids, Peroxides, Calcium hypochlorite, Sodium hypochlorite.

## SECTION 8 Exposure Controls/Personal Protection

**Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
LIMESTONE 1317-65-3	-	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 15 mg/m3 total dust	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust

CRYSTALLINE SILICA 14808-60-7	TWA: 0.025 mg/m3 respirable fraction	(vacated) TWA: 5 mg/m3 respirable fraction	IDLH: 50 mg/m3 respirable dust TWA: 0.05 mg/m3 respirable dust
		(vacated) TWA: 0.1 mg/m3 respirable dust	
		: (30)/(%SiO2 + 2) mg/m3 TWA total dust	
		: (250)/(%SiO2 + 5) mppcf TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m3 TWA respirable fraction	

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

**Individual protection measures, such as personal protective equipment**

Eye/face protection: Wear safety glasses with side shields (or goggles).  
 Skin and body protection: Wear protective gloves and protective clothing.  
 Respiratory protection: Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.  
 General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

**SECTION 9  
Physical and Chemical Properties**

<b>Physical State:</b>	Viscous liquid
<b>Appearance:</b>	Amber
<b>Odor:</b>	Mercaptan
<b>Odor Threshold:</b>	No information available.
<b>pH:</b>	No information available.
<b>Melting Point/Freezing Point:</b>	No information available.
<b>Boiling Point/Boiling Range:</b>	No information available.
<b>Flash Point:</b>	> 93 °C / > 200 °F
<b>Evaporation rate:</b>	No information available.
<b>Flammability (solid, gas):</b>	No information available.
<b>Flammability Limit in Air</b>	
<b>Upper Flammability Limit:</b>	No information available.
<b>Lower Flammability Limit:</b>	No information available.
<b>Vapor pressure:</b>	<1mmHg @ 70°F
<b>Vapor density:</b>	>1     Air = 1
<b>Relative density:</b>	1.13
<b>Water Solubility:</b>	Negligible.
<b>Solubility in other solvents:</b>	No information available.
<b>Partition Coefficient:</b>	No information available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Kinematic Viscosity:</b>	No information available.

**Dynamic Viscosity:** No information available.  
**Exposive Properties:** No information available.  
**Oxidizing Properties:** No information available.

**Other Information**  
**Softening point:** No information available.  
**Molecular weight:** No information available.  
**VOC Content (%):** 0  
**Density:** No information available.  
**Bulk density:** No information available.

## SECTION 10 Stability and Reactivity

**Reactivity** No data available.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** None under normal processing.

**Conditions to avoid:** Excessive heat.

**Incompatible materials:** Strong oxidizing agents, Acids, Peroxides, Calcium hypochlorite, Sodium hypochlorite.

**Hazardous decomposition products:** Carbon oxides  
Nitrogen oxides (NOx)  
Oxides of sulfur

## SECTION 11 Toxicological Information

**Information on likely routes of exposure:**

**Inhalation:** May cause irritation of respiratory tract.

**Eye contact:** Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Skin contact:** May cause skin irritation and/or dermatitis.

**Ingestion:** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
CRYSTALLINE SILICA 14808-60-7	= 500 mg/kg ( Rat )	-	-

**Information on toxicological effects**

Symptoms No information available.

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

Sensitization No information available.  
 Germ cell mutagenicity No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Target Organ Effects:

Eyes, Lungs, Respiratory system, Skin.

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

ATEmix (oral) 1000 mg/kg

## SECTION 12 Ecological Information

**Ecotoxicity:**

99.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence and Degradability:** No information available.

**Bioaccumulation Potential:** No information available.

**Mobility:** No information available.

**Other Adverse Effects:** No information available.

## SECTION 13 Disposal Considerations

**Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Do not reuse container.

**US EPA Waste Number:** Not applicable.

## SECTION 14 Transport Information

**DOT**

Proper shipping name: Not regulated

**IATA**

Proper shipping name: Not regulated

**IMDG**

Proper shipping name: Not regulated

**SECTION 15**  
**Regulatory Information**

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not Listed.
ENCS	Complies
IECSC	Complies
KECL	Complies
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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

<b>Chemical Name</b>	<b>California Proposition 65</b>
CRYSTALLINE SILICA - 14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
LIMESTONE 1317-65-3	X	X	X
CRYSTALLINE SILICA 14808-60-7	X	X	X
4-T-BUTYLCATECHOL 98-29-3	-	X	X
BENZYL ALCOHOL 100-51-6	-	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number: Not applicable

NFPA      Health hazards 2    Flammability 1    Instability 0  
 HMIS      Health hazards 2    Flammability 1    Physical hazards 0    Personal protection B

NFPA (National Fire Protection Association)  
 HMIS (Hazardous Material Information System)

**SECTION 16  
Other Information**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. 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 use, 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.

**ABBREVIATIONS:**

NG="NOT GIVEN"	BT="BETWEEN"
<="LESS THAN"	>="GREATER THAN"
ND = Not Determined	NA = Not Applicable