

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 11/22/2016 Date of Issue: 11/22/2016

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture

Product Name: Epoxy Hardener

1.2. Intended Use of the Product

Use of the Substance/Mixture: Hardener to be used with epoxy resin for exterior building finishes. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Fullerton Finish Systems 8645 West 21st Street

P.O. Box 609

Sand Springs, OK 74063

918-246-9995

www.fullertonfinishsystems.com

1.4. Emergency Telephone Number

Emergency Number : 918-246-9995

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Skin Corr. 1C	H314
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
Repr. 2	H361
Aquatic Acute 3	H402
Aquatic Chronic 3	H412

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H361 - Suspected of damaging fertility or the unborn child.

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US): P201 - Obtain special instructions before use.

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

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.
P284 - [In case of inadequate ventilation] wear respiratory 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.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see section 4 on this SDS).

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

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

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

P308+310+313 - If exposed or concerned: Get medical advice/attention.

Immediately call a poison center or doctor.

2.3. Other Hazards

This product contains Crystalline Silica dust that is mixed with a liquid to form a paste mixture, and therefore the dust is not likely to be dispersed into the air. If dust is released into the air, repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Limestone	(CAS No) 1317-65-3	70.2395 - 71.43	Not classified
Propylene glycol diamine, 2-amino-, diether with Propylene	(CAS No) 9046-10-0	14.286 - 23.81	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Triethanolamine	(CAS No) 102-71-6	2.856 - 4.76	Not classified
Piperazine	(CAS No) 110-85-0	0.6188 - 1.428	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Resp. Sens. 1B, H334 Skin Sens. 1B, H317 Repr. 2, H361
1-Piperazineethanamine	(CAS No) 140-31-8	0.3332 - 0.6188	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Water	(CAS No) 7732-18-5	< 0.4762	Not classified
Stearic acid	(CAS No) 57-11-4	0.4762	Comb. Dust
Quartz	(CAS No) 14808-60-7	< 0.2381	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid Measures After Inhalation: 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: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. Suspected of damaging fertility or the unborn child.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness, or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** Suspected of damaging fertility or the unborn child. This product contains Crystalline Silica dust that is mixed with a liquid to form a paste mixture, and therefore the dust is not likely to be dispersed into the air. If dust is released into the air, repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO₂). Nitrogen oxides. Silicon oxides. Calcium oxide. Ammonia. Aldehydes, ketones.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Spilled material may present a slipping hazard.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

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Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, and spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Fluorine. Magnesium. Alum. Ammonium salts.

7.3. Specific End Use(s)

Hardener to be used with epoxy resin for exterior building finishes. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Triethanolamine (102-71-6)				
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³		
Piperazine (1	Piperazine (110-85-0)			
USA ACGIH	ACGIH TWA (ppm)	0.03 ppm (inhalable fraction and vapor)		
USA ACGIH	ACGIH chemical category	dermal sensitizer, Not Classifiable as a Human Carcinogen		
Limestone (1	317-65-3)			
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)		
		5 mg/m³ (respirable dust)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)		
		5 mg/m³ (respirable fraction)		
Quartz (1480	Quartz (14808-60-7)			
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)		
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)		
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2		

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

Hand Protection
Eve Protection

Skin and Body Protection

- : Chemically resistant materials and fabrics. Corrosion-proof clothing.
- : Wear protective gloves.
- : Chemical safety goggles and face shield.
- : Wear suitable protective clothing.

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Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties			
Physical State	:	Liquid	
Appearance	:	White	
Odor	:	Ammoniacal	
Odor Threshold	:	No data available	
рН	:	No data available	
Evaporation Rate	:	No data available	
Melting Point	:	No data available	
Freezing Point	:	No data available	
Boiling Point	:	No data available	
Flash Point	:	No data available	
Auto-ignition Temperature	:	No data available	
Decomposition Temperature	:	No data available	
Flammability (solid, gas)	:	No data available	
Vapor Pressure	:	No data available	
Relative Vapor Density at 20°C	:	No data available	
Relative Density	:	No data available	
Solubility	:	No data available	
Partition Coefficient: N-Octanol/Water	:	No data available	
Viscosity	:	No data available	

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3. Possibility of Hazardous Reactions:** Hazardous reactions will not occur under normal conditions. This product is a curing agent and will not polymerize on its own, but may cause a polymerization reaction with the generation of heat in the presence of epoxide resins.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Fluorine. Magnesium. Alum. Ammonium salts.
- 10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Triethanolamine (102-71-6)		
LD50 Oral Rat	6400 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	
Piperazine (110-85-0)		
LD50 Oral Rat	600 mg/kg	
LD50 Dermal Rabbit	1590 mg/kg	
ATE (Oral)	1,900.00 mg/kg body weight	
1-Piperazineethanamine (140-31-8)		
LD50 Oral Rat	2140 μl/kg	
LD50 Dermal Rabbit	880 μl/kg	
ATE (Oral)	500.00 mg/kg body weight	
ATE (Dermal)	300.00 mg/kg body weight	

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Quartz (14808-60-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg	
Stearic acid (57-11-4)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg	
Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)		
LD50 Oral Rat	2885.3 mg/kg	

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified. (Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.)

Triethanolamine (102-71-6)	
IARC group	3
Quartz (14808-60-7)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness, or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** Suspected of damaging fertility or the unborn child. This product contains Crystalline Silica dust that is mixed with a liquid to form a paste mixture, and therefore the dust is not likely to be dispersed into the air. If dust is released into the air, repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Triethanolamine (102-71-6)		
LC50 Fish 1	10600 (10600 - 13000) mg/l (Exposure time: 96 h - Species: Pimephales promelas	
	[flow-through])	
LC50 Fish 2	1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
ErC50 (Algae)	169 mg/l	
Piperazine (110-85-0)		
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	21 mg/l	
NOEC Chronic Crustacea	12.5 mg/l	
1-Piperazineethanamine (140-31-8)		
LC50 Fish 1	1950 - 2460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-	
	through])	
EC50 Daphnia 1	32 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])	

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Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)		
LC50 Fish 1	> 15 mg/l (Exposure: 96 h - OECD Test Guideline 203)	
EC50 Daphnia 1	80 mg/l (48 h - Daphnia magna)	
LC50 Fish 2	772.14 mg/l (Exposure: 96 h - OECD Test Guideline 203)	
EC50 Daphnia 2	418.34 mg/l (48 h - Acartia tonsa)	
ErC50 (Algae)	15 mg/l (72 h - Selenastrum capricornutum)	

12.2. Persistence and Degradability

Epoxy Hardener	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

Epoxy Hardener		
Bioaccumulative Potential	Not established.	
Triethanolamine (102-71-6)		
BCF Fish 1	3.9	
Log Pow	-2.53	
Piperazine (110-85-0)		
BCF Fish 1	0.3 - 3.9	
1-Piperazineethanamine (140-31-8)		
BCF Fish 1	(no bioaccumulation expected)	
Log Pow	-1.48	
Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)		
Log Pow	1.34 at 25°C	

12.4. Mobility in Soil

Stearic acid (57-11-4)	
Log Koc	51.05

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (Propylene glycol diamine, 2-amino-, diether with Propylene ;

Piperazine; 1-Piperazineethanamine)

Hazard Class : 8
Identification Number : UN1760
Label Codes : 8
Packing Group : III
ERG Number : 154



14.2. In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, N.O.S. (Propylene glycol diamine, 2-amino-, diether with Propylene ;

Piperazine; 1-Piperazineethanamine)

Hazard Class : 8
Identification Number : UN1760
Packing Group : III

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Label Codes: 8EmS-No. (Fire): F-AEmS-No. (Spillage): S-B



14.3. In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, N.O.S. (Propylene glycol diamine, 2-amino-, diether with Propylene ;

Piperazine; 1-Piperazineethanamine)

Packing Group : III

Identification Number: UN1760Hazard Class: 8

Label Codes : 8 ERG Code (IATA) : 8L



SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Epoxy Hardener		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Triethanolamine (102-71-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Piperazine (110-85-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
1-Piperazineethanamine (140-31-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Limestone (1317-65-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Quartz (14808-60-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Stearic acid (57-11-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)		
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	
	Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA	
	Inventory Data Base Production and Site Reports (40 CFR 710(C))	

15.2. US State Regulations

Triethanol	amina	(102 71 6)
Triethanoi	amine i	1102-/1-01

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Piperazine (110-85-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

1-Piperazineethanamine (140-31-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Limestone (1317-65-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List

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

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 11/22/2016

Other Information : This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200

GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Flam. Sol. 1	Flammable solids Category 1
Repr. 2	Reproductive toxicity Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Resp. Sens. 1B	Respiratory sensitisation Category 1B
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1B	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful 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.

SDS US (GHS HazCom)

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