

## **Safety Data Sheet**

Issue Date: 21-May-2013 Revision Date: 13-Mar-2014 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name PC CONCRETE EPOXY, PART A

Other means of identification

**SDS** # 130521-37

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives.

Details of the supplier of the safety data sheet

**Supplier Address** 

Protective Coatings Co. 221 S Third St. Allentown, PA 18102 USA

**Emergency Telephone Number** 

**Company Phone Number** 610-432-3543 / 800-220-2103

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance White paste Physical State Paste Odor Mild

## Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

# Signal Word Warning

## **Hazard Statements**

Causes skin irritation
Causes serious eye irritation



Revision Date: 13-Mar-2014

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

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 it before reuse If skin irritation or rash occurs: Get medical advice/attention

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Polymer of epichlorohydrin and bisphenol A	25085-99-8	40-50
Trimethylolethane triglycidyl ether	68460-21-9	7-15
Titanium Dioxide	13463-67-7	1-5
Silica, Quartz	14808-60-7	1-5
Ethylene glycol	107-21-1	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

## **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant,

paramedic, or community medical support.

**Eve Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

**Skin Contact** Wash with soap and water. Remove and wash contaminated clothing before reuse. Get

medical attention if irritation occurs.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Never

give anything by mouth to an unconscious person. Remove stomach contents by medical

personnel only. Immediate medical attention is required.

## Most important symptoms and effects

**Symptoms** Causes eye irritation. Direct contact may cause temporary redness and discomfort. Causes

skin irritation. May cause respiratory irritation. Ingestion may cause nausea, vomiting,

dizziness, and headache, Coma.

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

**Notes to Physician** Skin and eye conditions may be aggravated by long term exposure.

Medical Conditions Aggravated by Long-Term Exposure: skin disorders and allergies and

Revision Date: 13-Mar-2014

eye conditions.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Carbon dioxide (CO2), Dry chemical, Alcohol foam.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Ignition will give rise to a Class B fire. May generate toxic or irritating combustion products. May generate carbon monoxide gas.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2),

#### Protective equipment and precautions for firefighters

Keep containers cool with water spray. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways. NFPA Class IIIB.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Wear protective gloves/protective clothing and eye/face protection. Remove any

contaminated clothing and wash thoroughly before reuse.

For Emergency Responders Follow applicable OSHA regulations (29 CFR 1910.120).

**Environmental Precautions** 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. For large spills, dike far ahead of liquid

spill for later disposal.

**Methods for Clean-Up**Collect and place in suitable, properly labeled container for recovery or disposal. Dispose of

contents/container to an approved waste disposal plant. For waste disposal, see section 13

of the SDS.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under

<90F (32C) . NFPA Class IIIB storage.

**Incompatible Materials** Strong acids, peroxides, and other oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol	Ceiling: 100 mg/m <sup>3</sup> aerosol only	(vacated) Ceiling: 50 ppm	-
107-21-1		(vacated) Ceiling: 125 mg/m <sup>3</sup>	
Titanium Dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
Silica, Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	(vacated) TWA: 0.1 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	fraction	respirable dust	TWA: 0.05 mg/m <sup>3</sup> respirable
		: (30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	dust
		total dust	
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		respirable fraction	

Pre-existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate silica / titanium dust. Inhaled silica / titanium has been classified by IARC as

Revision Date: 13-Mar-2014

a human carcinogen (see section 11).

**Appropriate engineering controls** 

Engineering Controls Provide general or local exhaust ventilation systems if possible. Make emergency eyewash

stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical safety goggles/faceshield.

**Skin and Body Protection** Wear chemically protective gloves to prevent skin contact. Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove

this material from your shoes and clean personal protective equipment.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. Follow OSHA respirator

regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved

respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Never eat, drink, or

smoke in work areas. Practice good personal hygiene after using this material, especially

before eating, drinking, smoking, using the toilet, or applying cosmetics.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical StatePasteAppearanceWhite pasteOdorMild

Color White Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** Not determined

Melting Point/Freezing Point

Boiling Point/Boiling Range

Not determined

Not determined

Flash Point 148.88 °C / > 300 °F CC (closed cup)

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

Revision Date: 13-Mar-2014

**Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Not determined Vapor Density Not determined **Specific Gravity** 1.4 @ 4 °C **Water Solubility** Insoluble in water

Solubility in other solvents Alcohols

**Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined **VOC Content** 11.7 lbs./ gallon

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

## **Incompatible Materials**

Strong acids, peroxides, and other oxidizing agents.

## **Hazardous Decomposition Products**

Thermal oxidative decomposition can produce CO, CO2 in a fire.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

Causes serious eye irritation. **Eye Contact** 

**Skin Contact** Causes skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause nausea, vomiting, stomach ache, and diarrhea.

## **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polymer of epichlorohydrin and	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	-
bisphenol A			
25085-99-8			

Ethylene glycol = 4000 mg/kg (Rat) =  $9530 \mu L/kg$  (Rabbit) 107-21-1 Titanium Dioxide > 10000 mg/kg (Rat) 13463-67-7 Silica, Quartz = 500 mg/kg (Rat)14808-60-7

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Silica (quartz) is a possible carcinogen when it appears as a respirable dust. Titanium

dioxide is a possible carcinogen when it appears as a respirable dust.

Revision Date: 13-Mar-2014

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7		Group 2B		X
Silica, Quartz 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

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

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

X - Present

## **Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene glycol 107-21-1	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	46300: 48 h Daphnia magna mg/L EC50

#### Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

## **Mobility**

Not determined

Not determined			
Chemical Name	Partition Coefficient		

130521-37 - PC CONCRETE EPOXY, PART A

Ethylene glycol	-1.93
107-21-1	

#### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

**Disposal of Wastes**Contact your supplier or a licensed contractor for detailed recommendations. Disposal

should be in accordance with applicable regional, national and local laws and regulations.

Revision Date: 13-Mar-2014

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

## 15. REGULATORY INFORMATION

#### International Inventories

TSCA Listed

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

## US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ

## SARA 311/312 Hazard Categories

## **Chronic Health Hazard**

## **SARA 313**

Yes

Revision Date: 13-Mar-2014

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	107-21-1	1-5	1.0

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen
Silica, Quartz - 14808-60-7	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	X	X	Х
Titanium Dioxide 13463-67-7	X	X	Х
Silica, Quartz 14808-60-7	X	X	Х

## **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards210Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection210B- Safety Glasses, Gloves

Issue Date:21-May-2013Revision Date:13-Mar-2014Revision Note:New format

#### **Disclaimer**

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

**End of Safety Data Sheet** 

# **Safety Data Sheet**



Issue Date: 21-May-2013 Revision Date: 13-Mar-2014 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name PC CONCRETE EPOXY, PART B

Other means of identification

**SDS** # 130521-38

UN/ID No UN1760

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives.

Details of the supplier of the safety data sheet

**Supplier Address** 

Protective Coatings Co. 221 S Third St. Allentown, PA 18102 USA

**Emergency Telephone Number** 

**Company Phone Number** 610-432-3543 / 800-220-2103

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

AppearanceBlack pastePhysical StatePasteOdorSlight amine

#### Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2

## **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

#### Signal Word Danger

#### **Hazard Statements**

Causes severe skin burns and eye damage May cause an allergic skin reaction Suspected of damaging fertility or the unborn child





#### **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

#### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

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

Immediately call a poison center or doctor/physician IF SWALLOWED: rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Liquid polyamide resin	68082-29-1	15-30
1-(2-Aminoethyl) piperazine	140-31-8	5-10
Nonyl phenol	84852-15-3	3-7
2,4,6-tri(dimethylaminomethyl)phenol	90-72-2	3-7
Silica, Quartz	14808-60-7	1-5
Ethylene glycol	107-21-1	0.1-1.0

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

## **First Aid Measures**

**Eye Contact** 

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

**Skin Contact**Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion** Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a poison center or doctor/physician if you feel unwell.

Revision Date: 13-Mar-2014

#### Most important symptoms and effects

**Symptoms** May cause respiratory irritation. May cause skin and eye irritation. Ingestion may cause

severe burns to mouth, throat or stomach.

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

**Notes to Physician** Skin and eye conditions may be aggravated by long term exposure.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Aldehydes. Nitrogen oxides (NOx).

#### 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. Do not release runoff from fire control methods to sewers or waterways. NFPA Class IIIB.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Wear protective gloves/protective clothing and eye/face protection. Remove any

contaminated clothing and wash thoroughly before reuse.

**Environmental Precautions** 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 Clean-Up** Dispose of contents/container to an approved waste disposal plant.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe

dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this

product. Use personal protection recommended in Section 8.

·

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Strong acids, peroxides, and other oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	(vacated) TWA: 0.1 mg/m <sup>3</sup>	IDLH: 50 mg/m3 respirable dust
14808-60-7	fraction	respirable dust	TWA: 0.05 mg/m <sup>3</sup> respirable
		: (30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	dust
		total dust	
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		respirable fraction	
Ethylene glycol	Ceiling: 100 mg/m <sup>3</sup> aerosol only	(vacated) Ceiling: 50 ppm	-
107-21-1		(vacated) Ceiling: 125 mg/m <sup>3</sup>	

Other Information If product is sanded, appropriate respirator should be worn to avoid breathing dust.

Pre-existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate silica / titanium dust. Inhaled silica / titanium has been classified by IARC as

Revision Date: 13-Mar-2014

a human carcinogen (see section 11).

**Appropriate engineering controls** 

Engineering Controls Provide general or local exhaust ventilation if product is sanded or ground.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear protective eyeglasses or chemical safety goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. If engineering controls do not

maintain airborne concentrations below recommended exposure limits, a NIOSH/MSHA

approved respirator must be worn.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. After use, wash

hands and exposed skin with soap and water. Do not eat, drink or smoke while handling

product. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Paste

AppearanceBlack pasteOdorSlight amineColorBlackOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

PH Not determined
Melting Point/Freezing Point
Boiling Point/Boiling Range Not determined

Flash Point > 93 °C / > 200 °F

Evaporation Rate

Flammability (Solid, Gas)

Section 1 Section 1 Section 2 S

Revision Date: 13-Mar-2014

**Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined Vapor Density Not determined **Specific Gravity** 1.05 H2O=1, at 4 °C Water Solubility Insoluble in water

Solubility in other solvents alcohols

**Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined **Density** 8.4 lbs./ gallon

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## **Conditions to Avoid**

Keep out of reach of children.

## **Incompatible Materials**

Strong acids, peroxides, and other oxidizing agents.

## **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

Inhalation May cause irritation if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause irritation to mucous membranes.

## **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-(2-Aminoethyl) piperazine 140-31-8	= 2140 mg/kg (Rat)	= 880 mg/kg (Rabbit)	-
Nonyl phenol 84852-15-3	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	-

2,4,6-tri(dimethylaminomethyl)phen ol 90-72-2 = 1000 mg/kg (Rat) = 1280 mg/kg (Rat) = 12

Revision Date: 13-Mar-2014

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** Silica (quartz) is a possible carcinogen when it appears as a respirable dust.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, Quartz	A2	Group 1	Known	X
14808-60-7				

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

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

## **Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

## Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-(2-Aminoethyl) piperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	EC50 > 10000 mg/L 17 h	32: 48 h Daphnia magna mg/L EC50
Nonyl phenol 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50	0.135: 96 h Pimephales promelas mg/L LC50 flow-through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through		0.14: 48 h Daphnia magna mg/L EC50

Ethylene glycol 6500 - 13000: 96 h 41000: 96 h Oncorhynchus EC50 = 10000 mg/L 16 h46300: 48 h Daphnia magna 107-21-1 Pseudokirchneriella mykiss mg/L LC50 14 - 18: EC50 = 620 mg/L 30 min mg/L EC50 EC50 = 620.0 mg/L 30 min subcapitata mg/L EC50 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static

Revision Date: 13-Mar-2014

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### **Mobility**

Chemical Name	Partition Coefficient
1-(2-Aminoethyl) piperazine 140-31-8	-1.48
Ethylene glycol 107-21-1	-1.93

## Other Adverse Effects

Not determined

## 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 Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nonyl phenol		Included in waste stream:		
84852-15-3		K060		
2,4,6-tri(dimethylaminomethy		Included in waste stream:		
l)phenol		K060		
90-72-2				

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

<u>DOT</u> Consumer commodity (If shipped in NON BULK packaging by ground transport)

UN1760

Proper Shipping Name Corrosive Liquids, n.o.s (aminoethylpiperazine, nonylphenol)

Hazard Class 8
Packing Group III

IATA

130521-38 - PC CONCRETE EPOXY, PART B

Revision Date: 13-Mar-2014

UN/ID No UN1760

Proper Shipping Name Corrosive Liquids, n.o.s (aminoethylpiperazine, nonylphenol)

Hazard Class 8
Packing Group III

**IMDG** 

UN/ID No UN1760

Proper Shipping Name Corrosive Liquids, n.o.s (aminoethylpiperazine, nonylphenol)

Hazard Class 8
Packing Group ||

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

IMDG/IMO

## 15. REGULATORY INFORMATION

#### International Inventories

Not determined

#### 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

#### US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ

#### SARA 311/312 Hazard Categories

## **Chronic Health Hazard**

Yes

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	107-21-1	0.1-1.0	1.0

## **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Silica, Quartz - 14808-60-7	Carcinogen

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

 
 Chemical Name
 New Jersey
 Massachusetts
 Pennsylvania

 1-(2-Aminoethyl) piperazine 140-31-8
 X
 X
 X

 Silica, Quartz 14808-60-7
 X
 X
 X

 Ethylene glycol 107-21-1
 X
 X
 X

Revision Date: 13-Mar-2014

## **16. OTHER INFORMATION**

NFPA_	<b>Health Hazards</b>	Flammability	Instability	Special Hazards
	3	1	0	Not determined
HMIS_	<b>Health Hazards</b>	Flammability	Physical Hazards	Personal Protection
	3	1	0	R

Issue Date:21-May-2013Revision Date:13-Mar-2014Revision Note:New format

## **Disclaimer**

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

**End of Safety Data Sheet**