

# **Safety Data Sheet**

Issue Date: 07-Nov-2018 Revision Date: 12-Nov-2018 Version 1

## 1. IDENTIFICATION

Product identifier

Product Name PC-Concrete PRO Part A

Other means of identification

**SDS** # 181107-58

UN/ID No UN3267

Recommended use of the chemical and restrictions on use

Recommended Use Anchoring Epoxy.

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 INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

#### 2. HAZARDS IDENTIFICATION

Appearance White viscous paste Physical state Viscous paste

## Classification

This Safety Data Sheet should be viewed as provisional, as the product's ingredients and percentages are kept as a trade secret / proprietary by the raw material manufacturer.

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

#### Signal Word Danger

#### **Hazard statements**

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

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## **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 must 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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Diglycidyl Ether of Bisphenol A	25085-99-8	>50-<75
Proprietary Ingredients	PROPRIETARY	<25
aliphatic triglycidyl ether	30499-70-8	<25

<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

## **Description of first aid measures**

**General Advice** Provide this SDS to medical personnel for treatment.

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

continue flushing for at least 15 minutes. Immediate medical attention is required.

**Skin Contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Remove and wash contaminated clothing before reuse. If skin irritation

or rash occurs: Get medical advice/attention.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Seek medical advice.

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

Causes severe skin burns and eye damage. May cause an allergic skin reaction. **Symptoms** 

#### 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**

Product is not flammable.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2),

#### Protective equipment and precautions for firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

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

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

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

Environmental precautions

See Section 12 for additional Ecological Information. **Environmental precautions** 

#### 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. Wear appropriate

personal protective equipment. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not breathe vapors or spray mist. Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood.

#### 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 oxidizing agents. Strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

#### 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** Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

Chemical resistant protective gloves. Wear suitable protective clothing. Reference Wiley's **Skin and Body Protection** 

"Quick Selection Guide to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for

appropriate skin and body protection.

**Respiratory Protection** 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. Do not eat, drink or

smoke when using this product. Wash contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Viscous paste **Appearance** White viscous paste

Odor Not determined **Odor Threshold** Color White Not determined

Property Values Remarks • Method

Not determined Ha Melting point / freezing point Not determined Boiling point / boiling range Not determined Flash point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

**Vapor Pressure** Not determined **Vapor Density** Not determined **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined

**Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

## 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 oxidizing agents. Strong acids.

## **Hazardous decomposition products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. May cause an allergic skin reaction.

Inhalation May cause irritation if inhaled.

Ingestion Ingestion may cause irritation to mucous membranes.

#### **Component Information**

Caution - substance not yet tested completely

#### Symptoms related to the physical, chemical and toxicological characteristics

**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 Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity May damage fertility or the unborn child.

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#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document No values to calculate.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

#### **Component Information**

Caution - substance not yet tested completely

## Persistence/Degradability

Not determined.

## **Bioaccumulation**

There is no data for this product.

#### **Mobility**

Not determined

### **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.

## 14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT

**UN/ID No** 

**Proper Shipping Name** Corrosive liquid, basic, organic, n.o.s. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-,

polymer with 2-(chloromethyl)oxirane)

**Hazard class Packing Group** Ш

IATA

**UN** number UN3267

**Proper Shipping Name** Corrosive liquid, basic, organic, n.o.s. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-,

polymer with 2-(chloromethyl)oxirane)

Transport hazard class(es) 8

**Packing Group** Ш

**IMDG** 

UN3267 **UN** number

**Proper Shipping Name** Corrosive liquid, basic, organic, n.o.s. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-,

polymer with 2-(chloromethyl)oxirane) 8

Transport hazard class(es)

**Packing Group** Ш

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## 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Diglycidyl Ether of Bisphenol A	X	X		X	Χ	X	X	Х
aliphatic triglycidyl ether	Χ	Х		Х	Х	Х	Х	Х

#### 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

#### **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).

#### **SARA 313**

Not determined

#### **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)

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diglycidyl Ether of Bisphenol A	X	X	X
25085-99-8			

## **16. OTHER INFORMATION**

**Health Hazards** Instability **Special Hazards** NFPA **Flammability** Not determined Not determined Not determined Not determined **Health Hazards Flammability** Physical hazards **Personal Protection HMIS** 0 Х

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## **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** 

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# **Safety Data Sheet**

Issue Date: 07-Nov-2018 Revision Date: 12-Nov-2018 Version 1

#### 1. IDENTIFICATION

Product identifier

Product Name PC-Concrete PRO Part B

Other means of identification

**SDS** # 181107-57

UN/ID No UN2735

Recommended use of the chemical and restrictions on use

Recommended Use Anchoring Epoxy.

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 INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Red paste, Grey paste Physical state Viscous paste Odor Amine-like

viscous

#### Classification

This Safety Data Sheet should be viewed as provisional, as the product's ingredients and percentages are kept as a trade secret / proprietary by the raw material manufacturer.

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

#### Signal Word

**Danger** 

#### **Hazard statements**

Causes severe skin burns and eye damage May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure



#### **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 must not be allowed out of the workplace

Wear protective gloves

Do not eat, drink or smoke when using this product

#### **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

Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Silica, Quartz	14808-60-7	40-70
N-Aminoethyl piperazine	140-31-8	5-15
Titanium dioxide	13463-67-7	<3

<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

#### **Description of first aid measures**

**General Advice** Provide this SDS to medical personnel for treatment.

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

continue flushing for at least 15 minutes. Immediate medical attention is required.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Remove and wash contaminated clothing before reuse. If skin irritation

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or rash occurs: Get medical advice/attention.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Seek medical advice.

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

**Symptoms** Causes severe skin burns and eye damage. May cause an allergic skin reaction. May be

harmful if swallowed.

#### 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

Product is not flammable.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2),

#### Protective equipment and precautions for firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

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

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

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

**Environmental precautions** 

**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. Contain and soak up with inert

absorbent material.

Methods for Clean-Up Sweep up absorbed material and shovel into suitable containers for disposal. 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 go

Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not breathe vapors or spray mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

## 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 oxidizing agents. Strong acids.

## 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	TWA: 50 μg/m³ TWA: 50 μg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	excludes construction work,	TWA: 0.05 mg/m <sup>3</sup> respirable
		agricultural operations, and	dust
		exposures that result from the	
		processing of sorptive clays	
		(vacated) TWA: 0.1 mg/m <sup>3</sup>	
		respirable dust	
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		respirable fraction	
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	TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine
		dust	TWA: 0.3 mg/m <sup>3</sup> CIB 63
			ultrafine, including engineered
			nanoscale

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

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** Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

**Skin and Body Protection**Chemical resistant protective gloves. Wear suitable protective clothing. Reference Wiley's

"Quick Selection Guide to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for

appropriate skin and body protection.

**Respiratory Protection** 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. Do not eat, drink or

smoke when using this product. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Viscous paste

AppearanceRed paste, Grey paste viscousOdorAmine-likeColorRed, GreyOdor ThresholdNot determined

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

pH Not determined
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation Rate
Flammability (Solid, Gas)
Not determined
Not determined
Not determined
Not determined
Not determined

Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor PressureNot determinedVapor DensityNot determined

Relative Density 1.27

**Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined Not determined **Decomposition temperature** Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

**Other information** 

VOC Content 0 g/L (tested per EPA CFR 40, Part 63, Subpart PPPP, Appendix A)

16.24 g/L (tested per EPA CFR 40, Part 60, method 24)

Bulk density 9.4 lbs / gal

#### 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 oxidizing agents. Strong acids.

## **Hazardous decomposition products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. May cause an allergic skin reaction.

**Inhalation** May cause irritation if inhaled.

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

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,3-Bis(aminomethyl)cyclohexane	200 - 2000 mg/kg (Rat) = 880	= 1700 mg/kg (Rabbit)	-
2579-20-6	mg/kg (Rat)		
N-Aminoethyl piperazine	= 2140 µL/kg (Rat)	= 880 μL/kg (Rabbit)	-
140-31-8			
Titanium dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			

#### Symptoms related to the physical, chemical and toxicological characteristics

**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** May cause cancer. Titanium dioxide is a possible carcinogen when it appears as a

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

dust.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica, Quartz 14808-60-7	A2	Group 1	Known	X
Titanium dioxide 13463-67-7		Group 2B		X

#### Legend

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

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

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

## **Numerical measures of toxicity**

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

 Oral LD50
 3,116.50
 mg/kg

 Dermal LD50
 5,121.30
 mg/kg

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

## **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
N-Aminoethyl piperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through	32: 48 h Daphnia magna mg/L EC50

#### Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

## **Mobility**

Chemical name	Partition coefficient
N-Aminoethyl piperazine 140-31-8	-1.48

## **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.

## 14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

<u>DO</u>T

**UN/ID No** UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (1,3-Cyclohexanedimethanamine,

2-Piperazin-1-Ylethylamine)

**Hazard class Packing Group** Ш

**IATA** 

UN number UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (1,3-Cyclohexanedimethanamine,

2-Piperazin-1-Ylethylamine)

Transport hazard class(es) 8 Ш **Packing Group** 

**IMDG** 

UN number UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (1,3-Cyclohexanedimethanamine,

2-Piperazin-1-Ylethylamine)

Transport hazard class(es) 8
Packing Group III

## 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical name	TSCA	DSL/NDSL		ENCS	IECSC	KECL	PICCS	AICS
			LINCS					
Silica, Quartz	X	X	Х	Х	Х	Х	Х	Х
1,3-Bis(aminomethyl)cyclohe xane	Х	Х	Х	Х	Х	Х	Х	Х
N-Aminoethyl piperazine	Х	Х	Х	Х	Х	Х	Х	Х
Titanium dioxide	Х	Х	Х	Х	Х	Х	Х	Х

#### 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

## **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).

## **SARA 313**

Not determined

## **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)

## **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65 Carcinogen Carcinogen	
Silica, Quartz - 14808-60-7		
Titanium dioxide - 13463-67-7		

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silica, Quartz 14808-60-7	X	X	X
N-Aminoethyl piperazine 140-31-8	X	X	X

Titanium dioxide	X	X	X
12/62 67 7			

## **16. OTHER INFORMATION**

NFPA **Health Hazards** Not determined **Health Hazards** HMIS

**Flammability** Not determined **Flammability** 

Instability Not determined Physical hazards **Special Hazards** Not determined **Personal Protection** 

Revision Date: 12-Nov-2018

07-Nov-2018 12-Nov-2018

New product

Issue Date:

**Revision Date:** 

**Revision Note:** 

#### 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**