



# Safety Data Sheet

Issue Date: 21-May-2013

Revision Date: 29-June-2024

Version 2

## 1. IDENTIFICATION

### Product identifier

Product Name PC CONCRETE EPOXY, PART B

### Other means of identification

SDS # 130521-38B-CA

Synonyms None

UN/ID No UN3263

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

Recommended Use Adhesives

Uses Advised Against No information available

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

#### Initial supplier identifier

Acklands Grainger Inc  
123 Commerce Valley Dr East, Suite 700  
Thornhill, ON L3T7W8  
Phone: 1-888-602-0000

#### Manufacturer Address

Protective Coatings Co.  
221 S Third St.  
Allentown, PA 18102 USA  
610-432-3543 / 800-220-2103

### Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Gray paste

Physical state Solid

Odour Amine-like

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitisation	Category 1
Reproductive toxicity	Category 2

### Signal word

Danger

**Hazard statements**

Harmful if swallowed

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

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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

Immediately call a POISON CENTRE or doctor

Immediately call a POISON CENTRE or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

Wash contaminated clothing before reuse

IF ON SKIN: Wash with plenty of water and soap

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

Take off all contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTRE or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

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 Information**

Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity**

NOTE: Acute Toxicity classifications are approximates, due to proprietary ingredient percentages.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Limestone	1317-65-3	65-85	-	-
Nonyl phenol	84852-15-3	10-30	-	-
1-(2-Aminoethyl) piperazine	140-31-8	10-30	-	-
2-methyl-1,5-pentamethylenediamine	15520-10-2	1-5	-	-
Silica, Quartz	14808-60-7	1-5	-	-
Proprietary Ingredients	PROPRIETARY	Proprietary	-	-

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

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
<b>Skin contact</b>	Wash with soap and water. Remove and wash contaminated clothing before reuse. Call a POISON CENTRE/doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

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

<b>Symptoms</b>	Causes severe skin burns and eye damage. Ingestion may cause severe burns to mouth, throat or stomach. May cause an allergic skin reaction. Harmful if swallowed.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Skin and eye conditions may be aggravated by long term exposure.
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### 5. FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical, CO2 or water spray.
<b>Unsuitable extinguishing media</b>	Not determined.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide (CO2). Aldehydes. Nitrogen oxides (NOx).

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters**

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**

**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 cleaning up** Dispose of contents/container to an approved waste disposal plant.

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

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/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**

**Control parameters**

**Exposure Limits**

Chemical name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>

Silica, Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
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**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 dust. Inhaled silica 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** 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** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Solid  
**Appearance** Gray paste  
**Colour** Gray  
**Odour** Amine-like  
**Odour Threshold** Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	No data available	
<b>Flash point</b>	No data available	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Not determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapour Pressure</b>	Not determined	
<b>Vapour Density</b>	No data available	
<b>Relative Density</b>	Not determined	
<b>Water Solubility</b>	Not determined	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	

Dynamic Viscosity	Not determined
Explosive properties	Not determined.
Oxidising properties	Not determined.

**Other information**

Softening Point	Not determined
Molecular weight	Not determined
VOC content	No data available
Liquid Density	Not determined
Bulk density	Not determined

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Hazardous Polymerisation</b>	Hazardous polymerisation does not occur.
<b>Conditions to Avoid</b>	Keep out of reach of children.
<b>Incompatible materials</b>	Strong acids, peroxides, and other oxidizing agents.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye contact</b>	Causes severe eye damage.
<b>Skin contact</b>	Causes severe skin burns. May cause an allergic skin reaction.
<b>Inhalation</b>	May cause irritation.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes.

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

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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**Acute toxicity**

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

<b>ATEmix (oral)</b>	402.40
mg/kg	

<b>Unknown acute toxicity</b>	NOTE: Acute Toxicity classifications are approximates, due to proprietary ingredient percentages.
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**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nonyl phenol 84852-15-3	= 1300 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	-
1-(2-Aminoethyl) piperazine 140-31-8	= 2140 µL/kg ( Rat )	= 866 mg/kg ( Rabbit )	-
2-methyl-1,5-pentamethylenediamine 15520-10-2	= 1690 mg/kg ( Rat )	-	= 4.1 mg/L ( Rat ) 1 h = 2.9 mg/L ( Rat ) 1 h

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

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

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

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

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

**NTP (National Toxicology Program)**

Known - Known Carcinogen

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

X - Present

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

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

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

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility****Component Information**

Chemical name	Partition coefficient
Nonyl phenol 84852-15-3	5.4
1-(2-Aminoethyl) piperazine 140-31-8	-1.48
2-methyl-1,5-pentamethylenediamine 15520-10-2	1

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**DOT**

**UN/ID No** UN3263  
**Proper Shipping Name** Corrosive solid, basic, organic n.o.s.(4-nonylphenol, branched,2-methylpentane-1,5-diamine)  
**Transport hazard class(es)** 8  
**Packing Group** III

**TDG**

**UN/ID No** UN3263  
**Proper Shipping Name** Corrosive solid, basic, organic n.o.s.(4-nonylphenol, branched,2-methylpentane-1,5-diamine)  
**Transport hazard class(es)** 8  
**Packing Group** III

**IATA**

**UN number or ID number** UN3263  
**Proper Shipping Name** Corrosive solid, basic, organic n.o.s.(4-nonylphenol, branched,2-methylpentane-1,5-diamine)  
**Transport hazard class(es)** 8  
**Packing group** III

**IMDG**

**UN number or ID number** UN3263  
**Proper Shipping Name** Corrosive solid, basic, organic n.o.s.(4-nonylphenol, branched,2-methylpentane-1,5-diamine)  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Marine Pollutant** Yes



## 15. REGULATORY INFORMATION

### REGULATORY INFORMATION

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIC
Limestone	X	X	X	X	X	X	X	X
Nonyl phenol	X	X	X	X	X	X	X	X
1-(2-Aminoethyl) piperazine	X	X	X	X	X	X	X	X
2-methyl-1,5- pentamethylenedia mine	X	X	X	X	X	X	X	X
Silica, Quartz	X	X	X	X	X	X	X	X

#### **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

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 1	Instability 0	Special hazards -
<b>HMIS</b>	Health hazards 3 *	Flammability 1	Physical hazards 0	Personal Protection B
<i>Chronic Hazard Star Legend</i>	<i>* = Chronic Health Hazard</i>			

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation

Revision Date: 29-June-2024

Revision Note: Regulatory review.

**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: 29-June-2024

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** PC CONCRETE EPOXY, PART A

### Other means of identification

**SDS #** 130521-37B-CA

**Synonyms** None

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

**Recommended Use** Adhesives

**Uses Advised Against** No information available

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

#### Initial supplier identifier

Acklands Grainger Inc  
123 Commerce Valley Dr East, Suite 700  
Thornhill, ON L3T7W8  
Phone: 1-888-602-0000

#### Manufacturer Address

Protective Coatings Co.  
221 S Third St.  
Allentown, PA 18102 USA  
610-432-3543 / 800-220-2103

### Emergency telephone number

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** White viscous paste

**Physical state** Solid

**Odour** Slight

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1
Germ cell mutagenicity	Category 2

### Signal word

Warning

**Hazard statements**

Causes skin irritation  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 Suspected of causing genetic defects

**Precautionary Statements - Prevention**

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

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
 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 water and soap  
 Take off all contaminated clothing and wash it before reuse  
 If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Diglycidyl Ether of Bisphenol A	25085-99-8	30-60	-	-
Limestone	1317-65-3	30-60	-	-
1,4-Butanediol Diglycidyl Ether	2425-79-8	10-30	-	-
Titanium(IV) Oxide	13463-67-7	0.1-1.0	-	-
Oxirane, [(2-methylphenoxy)methyl]-	2210-79-9	0.1-1.0	-	-

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

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant, paramedic, or community medical support.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. 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, both acute and delayed

<b>Symptoms</b>	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. May cause an allergic skin reaction.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Skin and eye conditions may be aggravated by long term exposure. Medical Conditions Aggravated by Long-Term Exposure: skin disorders and allergies and eye conditions.
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## 5. FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Alcohol foam.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	Ignition will give rise to a Class B fire. May generate toxic or irritating combustion products. May generate carbon monoxide gas.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ),
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	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.

### 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. For large spills, dike far ahead of liquid spill for later disposal.

**Methods for cleaning 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.

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

## 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. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing must 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

### Control parameters

#### Exposure Limits

Chemical name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
Titanium(IV) Oxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 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 a human carcinogen (see section 11).

### Appropriate engineering controls

**Engineering controls** Provide general or local exhaust ventilation systems if possible. Maintain eye wash fountain and quick-drench facilities 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** None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

**General hygiene considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	White viscous paste
<b>Colour</b>	White
<b>Odour</b>	Slight
<b>Odour Threshold</b>	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	> / = 2.0 - < / = 12.0	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	No data available	
<b>Flash point</b>	No data available	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Not determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	Not available	
<b>Lower flammability or explosive limits</b>	Not available	
<b>Vapour Pressure</b>	Not determined	
<b>Vapour Density</b>	No data available	
<b>Relative Density</b>	1.4	@ 60°F (ASTM D 1298)
<b>Water Solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	

Dynamic Viscosity	Not determined
Explosive properties	Not determined.
Oxidising properties	Not determined.

**Other information**

Softening Point	Not determined
Molecular weight	Not determined
VOC content	No data available
Liquid Density	Not determined
Bulk density	Not determined

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Hazardous Polymerisation</b>	Hazardous polymerisation does not occur.
<b>Conditions to Avoid</b>	Keep out of reach of children.
<b>Incompatible materials</b>	Strong acids, peroxides, and other oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal oxidative decomposition can produce CO, CO <sub>2</sub> in a fire.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	May cause nausea, vomiting, stomach ache, and diarrhea.

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

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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**Acute toxicity**

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

ATEmix (oral)	7,560.00
mg/kg	
ATEmix (dermal)	7,333.30
mg/kg	
ATEmix (inhalation-dust/mist)	10.00
mg/L	



**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,4-Butanediol Diglycidyl Ether 2425-79-8	= 1134 mg/kg ( Rat )	> 2150 mg/kg ( Rat )	-
Titanium(IV) Oxide 13463-67-7	> 10000 mg/kg ( Rat )	-	= 5.09 mg/L ( Rat ) 4 h
Oxirane, [(2-methylphenoxy)methyl]- 2210-79-9	= 4 g/kg ( Rat )	> 2200 mg/kg ( Rabbit )	> 6.1 ppm ( Rat ) 4 h

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

<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Suspected of causing genetic defects.
<b>Carcinogenicity</b>	Titanium dioxide is a possible carcinogen when it appears as a respirable dust.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium(IV) Oxide 13463-67-7	A3	Group 2B	-	X

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

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

X - Present

**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
Oxirane, [(2-methylphenoxy)methyl]- 2210-79-9	-	LC50: 2.8 - 5.1mg/L (96h, Oncorhynchus mykiss)	-	-

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility**

Chemical name	Partition coefficient
1,4-Butanediol Diglycidyl Ether 2425-79-8	-0.269
Oxirane, [(2-methylphenoxy)methyl]- 2210-79-9	2.5

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**DOT**

Not regulated

**TDG**

Not regulated

**UN number or ID number**

UN3077

**Proper Shipping Name**

Environmentally hazardous substance, solid, n.o.s (Oxirane,[(2-methylphenoxy)methyl]-)

**Transport hazard class(es)**

9

**Packing group**

III

**UN number or ID number**

UN3077

**Proper Shipping Name**

Environmentally hazardous substance, solid, n.o.s (Oxirane,[(2-methylphenoxy)methyl]-)

**Transport hazard class(es)**

9

**Packing Group**

III

**Marine Pollutant**

Yes

**15. REGULATORY INFORMATION****REGULATORY INFORMATION****International Regulations****Ozone-depleting substances (ODS)** Not applicable**The Stockholm Convention on Persistent Organic Pollutants** Not applicable**The Rotterdam Convention** Not applicable**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Diglycidyl Ether of Bisphenol A	X	X			X	X	X	X
Limestone	X	X	X	X	X	X	X	X
1,4-Butanediol Diglycidyl Ether	X	X	X	X	X	X	X	X
Titanium(IV) Oxide	X	X	X	X	X	X	X	X
Oxirane, [(2-methylphenoxy)methyl]-	X	X	X	X	X	X	X	X

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - 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

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

**NFPA**  
**HMIS**

Health hazards 2  
Health hazards 2 \*

Flammability 1  
Flammability 1

Instability 0  
Physical hazards 0

Special hazards -  
Personal Protection B-  
Safety Glasses, Gloves

*Chronic Hazard Star Legend*

\* = Chronic Health Hazard

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)  
STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value  
\* Skin designation

Revision Date: 29-June-2024

Revision Note: New formula.

### 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**