# 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

UN/ID No UN3263

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 INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Gray paste Physical state Paste / Gel Odor Amine-like

# Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

#### **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

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

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/vapors/spray

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

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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: Call a POISON CENTER or doctor/physician if you feel unwell

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

## **Unknown Acute Toxicity**

Note: Acute Toxicity classifications / calculations are approximates, due to proprietary ingredient percentages

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Limestone	1317-65-3	>50-<75
Nonyl phenol	84852-15-3	>10-<25
1-(2-Aminoethyl) piperazine	140-31-8	<15
2-methyl-1,5-pentamethylenediamine	15520-10-2	<5
Silica, Quartz	14808-60-7	>1-<3
Proprietary ingredient	Proprietary	Proprietary

<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**

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. Call a

poison center or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get

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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. Immediate medical attention is required.

# Most important symptoms and effects, both acute and delayed

Symptoms Causes severe skin burns and eye damage. Harmful if swallowed. Ingestion may cause

severe burns to mouth, throat or stomach. May cause an allergic skin reaction.

## 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). Nitrogen oxides (NOx). Metal oxides.

<sup>\*</sup> Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Quartz Silica Sand (Crystalline Silica)) Inhalation of particulates unlikely due to product's physical state.

# 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.

# 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** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 12 for additional Ecological Information.

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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 Reclaim where possible. 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. Obtain special

instructions before use. Do not handle until all safety precautions have been read and understood. 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 must 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 oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone	-	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m³ total dust
1317-65-3		TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> respirable dust
		(vacated) TWA: 15 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Silica, Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 µg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf TWA	
		respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		respirable fraction	

NIOSH IDLH Immediately Dangerous to Life or Health

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

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(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. Refer to 29 CFR 1910.133 for eye

and face protection regulations.

Skin and Body Protection Wear protective gloves and 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** 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 statePaste / GelAppearanceGray pasteOdorAmine-likeColorGreyOdor ThresholdNot determined

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

pH No data available
 Melting point / freezing point No data available
 Initial boiling point and boiling
 No data available

range

Flash point

Evaporation Rate

Flammability (Solid, Gas)

No data available
Not determined
Not determined

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor Pressure
Vapor Density
Relative Density
Not determined
Water Solubility
Solubility in other solvents
Partition Coefficient
Autoignition temperature
Not determined
Not determined
Not determined
Not determined
Not data available

Decomposition temperature

Kinematic viscosity

Dynamic Viscosity

Not determined

Not determined

Not determined

**Explosive Properties**Oxidizing Properties
Not determined
Not determined

# 10. STABILITY AND REACTIVITY

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## 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.

# **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. May cause an allergic skin reaction.

**Inhalation** May cause irritation if inhaled.

**Ingestion** Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

# **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

# 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

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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		·		

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 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

**Unknown Acute Toxicity** Note: Acute Toxicity classifications / calculations are approximates, due to proprietary

ingredient percentages.

Oral LD50 421.50 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

# **Component Information**

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

#### Persistence/Degradability

Not determined.

### **Bioaccumulation**

There is no data for this product.

#### **Mobility**

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

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# 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 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** Ш

**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 Ш

Packing group

**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** Ш **Marine Pollutant** Yes

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# 15. REGULATORY INFORMATION

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#### **International Inventories**

Chemical name	TSCA	TSCA Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AIIC
		Status		NCS					
Limestone	Χ	ACTIVE	X	X	Χ	X	Χ	X	X
Nonyl phenol	Х	ACTIVE	X	X	Χ	X	Χ	X	X
1-(2-Aminoethyl) piperazine	Х	ACTIVE	Х	X	Χ	Х	Х	Х	X
2-methyl-1,5- pentamethylenediamine	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Silica, Quartz	Х	ACTIVE	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**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Nonyl phenol - 84852-15-3	84852-15-3	>10-<25	1.0

#### **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	
Silica, Quartz - 14808-60-7	Carcinogen	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Limestone	X	X	X
1317-65-3			
1-(2-Aminoethyl) piperazine	X	X	X
140-31-8			
Silica, Quartz	X	X	X
14808-60-7			

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# **16. OTHER INFORMATION**

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NFPA Health hazards Flammability Instability Special hazards

3\* 0 0 Not determined

Chronic Hazard Star Legend \*= Chronic Health Hazard

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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**

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# 1. IDENTIFICATION

Product identifier

Product Name PC CONCRETE EPOXY, PART A

Other means of identification

**SDS** # 130521-37B

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 Solid

#### Classification

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves

#### **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

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If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash 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

Chemical name	CAS No	Weight-%
Diglycidyl Ether of Bisphenol A	25085-99-8	>50-<70
Limestone	1317-65-3	>25-<50
1,4-Butanediol Diglycidyl Ether	2425-79-8	<15
Titanium(IV) Oxide	13463-67-7	>0.3-<1
Oxirane, [(2-methylphenoxy)methyl]-	2210-79-9	>0.3-<1

<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. After first aid, get appropriate in-plant,

paramedic, or community medical support.

Eye 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. If skin

irritation or rash occurs: Get medical advice/attention.

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<sup>\*</sup> Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Titanium Dioxide) Inhalation of particulates unlikely due to product's physical state.

**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

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medical personnel only. Immediate medical attention is required.

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

**Symptoms** Causes serious eye irritation. Causes skin irritation. Direct contact may cause temporary

redness and discomfort. Ingestion may cause nausea, vomiting, dizziness, and headache,

May cause an allergic skin reaction.

#### 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

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**

May generate toxic or irritating combustion products. May generate carbon monoxide gas.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2), Metal oxides.

# 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.

#### 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** 

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, 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**Reclaim where possible. 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.

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# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on Safe Handling Obtain special instructions before use. Handle in accordance with good industrial hygiene

and safety practice. Use personal protection recommended in Section 8. Do not handle until all safety precautions have been read and understood. 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 remove labels from empty containers. Do not breathe dust/fume/gas/mist/vapors/spray.

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# 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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone	-	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m³ total dust
1317-65-3		TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> respirable dust
		(vacated) TWA: 15 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Titanium(IV) Oxide	TWA: 0.2 mg/m <sup>3</sup> nanoscale	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7	respirable particulate matter	(vacated) TWA: 10 mg/m³ total	TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine
	TWA: 2.5 mg/m <sup>3</sup> finescale	dust	TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine,
	respirable particulate matter		including engineered nanoscale

NIOSH IDLH Immediately Dangerous to Life or Health

existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate titanium dioxide dust. Inhaled titanium dioxide 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. 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. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

**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. Refer to 29 CFR 1910.138 for appropriate skin and body protection. Reference Wiley's "Quick Selection"

Guide to Chemical Protective Clothing".

Respiratory Protection Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure

limits are exceeded. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**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

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

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Solid

AppearanceWhite viscous pasteOdorNot determinedColorWhiteOdor ThresholdNot determined

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

range

Flash point No data available
Evaporation Rate Not determined
Flammability (Solid, Gas) Not determined

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

**Vapor Pressure** Not determined **Vapor Density** No data available **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined Not determined **Partition Coefficient** No data available **Autoignition temperature 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.

#### Hazardous decomposition products

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

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May cause an allergic skin reaction.

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

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#### 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.

**Germ cell mutagenicity** Suspected of causing genetic defects.

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

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

#### 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 Labor)

X - Present

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

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

 Oral LD50
 7,365.20 mg/kg

 Dermal LD50
 7,097.00 mg/kg

 ATEmix (inhalation-dust/mist)
 10.00 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

# **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Oxirane, [(2-methylphenoxy)methyl]-		LC50: 2.8 - 5.1mg/L (96h,	
2210-79-9		Oncorhynchus mykiss)	

## Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

#### **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

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

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

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

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**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

IATA

**UN** number or ID number UN3077

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

Transport hazard class(es) Packing group Ш

**IMDG** 

UN number or ID number UN3077

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

Transport hazard class(es) **Packing Group** Ш **Marine Pollutant** Yes

# 15. REGULATORY INFORMATION

#### **International Inventories**

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

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#### 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**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **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
Titanium(IV) Oxide - 13463-67-7	Carcinogen

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diglycidyl Ether of Bisphenol A	X	X	X
25085-99-8			
Limestone	X	X	X
1317-65-3			
Titanium(IV) Oxide	X	X	X
13463-67-7			

D---- 0./

# **16. OTHER INFORMATION**

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NFPA Health hazards Flammability Instability Special hazards

<u>HMIS</u> Health hazards Flammability Physical hazards Personal Protection

2\* 0 Not determined

Chronic Hazard Star Legend \*= Chronic Health Hazard

Issue Date:21-May-2013Revision Date:29-June-2024Revision 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** 

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