

# TREMLITE EPOXY RUST CTG - 10 GALLON KITTREMLITE EPOXY RUST CTG - 10 GALLON KIT

Version 3.0

REVISION DATE: 07/08/2012

Print Date 07/18/2015

This is a kit that contains the following components:

TREMLITE EPOXY RUST COAT PART A TREM EPOXY RUST COAT PART B

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/16 086915 800



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**REVISION DATE: 07/08/2012** 

Print Date 07/18/2015

#### SECTION 1 - PRODUCT IDENTIFICATION

Trade name

TREMLITE EPOXY RUST COAT PART A

Product code

086915 800

COMPANY

Tremco Incorporated 3735 Green Road

Cleveland, OH 44122

Telephone

: (216) 292-5000 8:30 - 5:00 EST : (216) 765-6727 8:30 - 5:00 EST

Emergency Phone:

After Hours: Chemtrec 1-800-424-9300

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Aluminum. Liquid. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

## Acute Potential Health Effects/ Routes of Entry

Inhalation

May cause slight irritation to the respiratory system.

Eyes

Slightly irritating.

Ingestion

May cause gastrointestinal irritation, nausea, and vomiting.

Skin

May cause sensitization.

# **Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

#### **Chronic Health Effects**

May cause sensitization by contact. Prolonged or repeated exposure to epoxy resin can cause irritation to skin, eyes, skin sensitization, temporary eye injury. Certain epoxy resins are reported to be mutagenic in some laboratory tests. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion

# SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %	
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	40.0 - 70.0	
Styrene Resin	9003-53-6	15.0 - 40.0	
Iron oxide	1332-37-2	15.0 - 40.0	
Aluminum	7429-90-5	10.0 - 30.0	
Triphenyl phosphite	101-02-0	7.0 - 13.0	





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# **SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation

: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get

medical attention.

Eye contact

Flush with water for 15 minutes. If irritation persists, get medical attention.

Skin contact

Wash with water. If irritation, rash or other disorders develop, get medical attention

immediately.

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Ingestion

Do not induce vomiting unless advised by a physician. Call nearest Poison Control

Center or Physician immediately.

# **SECTION 5 - FIRE FIGHTING MEASURES**

Flash point

201 °F, 94 °C

Method

Setaflash Closed Cup

Lower explosion limit

Not available.

Upper explosion limit

: Not available.

Autoignition temperature

: Not available.

Extinguishing media

This product is not expected to burn under normal conditions of use.

Hazardous combustion

products

Smoke, fumes.

Protective equipment for

firefighters

Use accepted fire fighting techniques. Wear full firefighting protective

clothing, including self-contained breathing apparatus (SCBA).

Fire and explosion conditions

This product not expected to ignite under normal conditions of use.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

#### SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Store in sealed containers in a dry, ventilated warehouse location above freezing.

# SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

# Personal protection equipment

Respiratory protection

: Not required under normal conditions of use.

Hand protection

: Use suitable impervious rubber or vinyl gloves and protective apparel to

reduce exposure.

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Eye protection

Wear appropriate eye protection.

Skin and body protection

: Not required.

Protective measures

Use professional judgment in the selection, care, and use. Other equipment

not normally required.

Engineering measures

General ventilation is sufficient.

# **Exposure Limits**

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Aluminum	7429-90-5	OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 1 mg/m3	Total dust.as Al Respirable dust.as Al Total dust. Respirable fraction. Respirable fraction.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form

Liquid

Color

: Aluminum

Odor

: Epoxy

рH

: Not available.

Vapour pressure

: Not available.

Vapor density

: Heavier than air

Melting point/range

: Not available.

Freezing point

: Not available.

Boiling point/range

: Not available.

Water solubility

: Miscible

Specific Gravity

: 1.24

% Volatile Weight

: 0 %

# **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid

Acids and bases. Amines. Epoxy curing agents.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Triphenyl phosphite, CAS-No.: 101-02-0

Acute oral toxicity (LD-50 oral)

1,330 mg/kg (Mouse) 1,600 mg/kg (Rat)

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# Material Safety Data Sheet



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# **SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method

Not regulated under RCRA. Dispose of in compliance with state and local regulations.

Do not incinerate.

# SECTION 14 - TRANSPORTATION / SHIPPING DATA

#### CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

Not Regulated

# **SECTION 15 - REGULATORY INFORMATION**

# North American Inventories:

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components

: Aluminum

7429-90-5

SARA 311/312 Hazards

: Acute Health Hazard

OSHA Hazardous Components:

Aluminum

7429-90-5

OSHA Status: Considered hazardous based on the

: Irritant

following criteria:

OSHA Flammability

: IIIB

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Regulatory VOC (less water and

exempt solvent)

: 0 g/l

: 0%

VOC Method 310

U.S. State Regulations: MASS RTK Components

: Aluminum

7429-90-5

Penn RTK Components

Bisphenol A Polyglycidyl Ether Resin

Styrene Resin

25068-38-6 9003-53-6

Iron oxide Aluminum 1332-37-2

Triphenyl phosphite

7429-90-5 101-02-0

NJ RTK Components

Bisphenol A Polyglycidyl Ether Resin

25068-38-6

Styrene Resin

9003-53-6

Iron oxide Aluminum

1332-37-2 7429-90-5

Triphenyl phosphite

101-02-0

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

None known.

#### **SECTION 16 - OTHER INFORMATION**

## **HMIS Rating:**

Health	2	0 = Minimum
Flammability	1	1 = Slight
Reactivity	1	2 = Moderate
PPE		3 = Serious
		4 = Severe

#### Further information:

For Industrial Use Only, Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

# Prepared by: Rich Mikol

#### Legend

ACGIH - American Conference of Governmental Hygienists

CERCLA - Comprehensive Environmental Response, Compensation, and

Liability Act

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTK - Right To Know

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound



# Material Safety Data Sheet



# TREMLITE EPOXY RUST COAT PART A

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NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

WHMIS - Workplace Hazardous Materials Information System



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## SECTION 1 - PRODUCT IDENTIFICATION

Trade name

TREM EPOXY RUST COAT PART B

Product code

086915 800

COMPANY

: Tremco Incorporated 3735 Green Road

Cleveland, OH 44122

Telephone

: (216) 292-5000 8:30 - 5:00 EST : (216) 765-6727 8:30 - 5:00 EST

Emergency Phone:

After Hours: Chemtrec 1-800-424-9300

Product use

: Curative

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Off-White. Liquid. May cause slight irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

#### Acute Potential Health Effects/ Routes of Entry

Inhalation

May cause slight irritation to the respiratory system.

Eyes

Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical

burns.

Ingestion

May cause gastrointestinal irritation, nausea, and vomiting. May cause chemical burns to

stomach, mouth, nose, and throat.

Skin

May cause itching, reddening, inflammation. May cause severe burns, blistering and skin

damage. May cause sensitization resulting in irritation, itching and redness. May cause a

rash.

#### **Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

#### **Chronic Health Effects**

May cause sensitization by contact. Prolonged skin contact may cause irritation, burns or dermatitis. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. May aggravate persons sensitized to amines. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged inhalation of mica airborne dust can produce scar tissue in the lungs. Mica is a filler that is encapsulated by resin and is not expected to have





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adverse effects unless made airborne. Prolonged or repeated exposure may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney, and testes damage. Toluene overexposure may cause burns of the skin, respiratory tract damage. May be harmful to the human fetus based on animal tests and limited epidemiology data. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

#### **SECTION 3 - PRODUCT COMPOSITION**

CAS-No.	Weight %
12001-26-2	40.0 - 70.0
14808-60-7	15.0 - 40.0
100-51-6	10.0 - 30.0
NJ TSRN# 51721300-5679P	5.0 - 10.0
NJ TSRN# 51721300-5678P	5.0 - 10.0
9003-53-6	3.0 - 7.0
108-65-6	3.0 - 7.0
NJ TSRN# 51721300-5168P	3.0 - 7.0
1302-78-9	3.0 - 7.0
694-83-7	3.0 - 7.0
100-41-4	3.0 - 7.0
1330-20-7	1.0 - 5.0
108-88-3	1.0 - 5.0
	12001-26-2 14808-60-7 100-51-6 NJ TSRN# 51721300-5679P NJ TSRN# 51721300-5678P 9003-53-6 108-65-6 NJ TSRN# 51721300-5168P 1302-78-9 694-83-7 100-41-4 1330-20-7

# **SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation : Move to fresh air. If required

: Move to fresh air. If required, artificial respiration or administration of oxygen can be

performed by trained personnel.

Eye contact : Flush with water for at least 15 mlnutes while holding eye lids apart. Get medical

attention immediately.

Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other

disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control

Center or Physician immediately.

# SECTION 5 - FIRE FIGHTING MEASURES

Flash point 76 °F, 24 °C

Method Setaflash Closed Cup

Lower explosion limit : 1.00 %(V) Solvent Upper explosion limit : 7.10 %(V) Solvent

Autoignition temperature : Not available.

Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.





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Hazardous combustion products

Carbon monoxide and carbon dioxide can form.Smoke, fumes.Nitrogen oxides can form.

Protective equipment for firefighters

Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Fire and explosion conditions

Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

#### **SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

# SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protection equipment

Respiratory protection : Wes

: Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hand protection

Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye protection

: Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Skin and body protection

Prevent contact with shoes and clothing. Use rubber apron and overshoes.

Protective measures

: Inspect and replace equipment at regular intervals. Use professional judgment in the selection, care, and use.

Engineering measures

Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

#### **Exposure Limits**

CAS Number	Regulation	Limit	Form
12001-26-2	ACGIH TWA:	3 mg/m3	Respirable fraction.



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Chemical Name	CAS Number	Regulation	Limit	Form
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Bentonite	1302-78-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction. Total dust. Respirable fraction.
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 125 ppm 435 mg/m3	
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	
Toluene	108-88-3	ACGIH TWA: OSHA TWA:	20 ppm 200 ppm	

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form

Liquid

Color

: Off-White

Odor

: Amine

рΗ

: Not available.

Vapour pressure

: Not available.

Vapor density

: Heavier than air

Melting point/range

: Not available.

Freezing point

: Not available.

Boiling point/range

: 232 - 300 °F, 111 - 149 °C

Water solubility

Negligible

Specific Gravity

1.56

% Volatile Weight

: 19 %

# **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid

Oxidizing agents. Epoxies. Isocyanates. Acids.

Stability

Material is stable under normal storage, handling, and use.

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Hazardous polymerization

: Will not occur under normal conditions.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Benzyl alcohol, CAS-No.: 100-51-6

Acute oral toxicity (LD-50 oral)

Acute inhalation toxicity (LC-50)

1,580 mg/kg ( Mouse ) 1,940 mg/kg ( Rabbit ) 3,100 mg/kg (

Rat ) 1,230 - 3,100 mg/kg (Rat)

200 - 300 mg/l for 8 h (Rat) 1,000 mg/l for 8 h (Rat)

Ethylbenzene, CAS-No.: 100-41-4

Acute oral toxicity (LD-50 oral)

Acute dermal toxicity (LD-50 dermal)

5,460 mg/kg (Rat) 3,500 mg/kg (Rat)

17,800 mg/kg (Rabbit)

Xylene, CAS-No.: 1330-20-7

Acute oral toxicity (LD-50 oral)

Acute inhalation toxicity (LC-50)

 $4,\!300$  mg/kg ( Rat ) 1,590 mg/kg ( Mouse ) 6,670 mg/kg ( Rat ) 3,523 - 8,600 mg/kg ( Rat ) 5,627 mg/kg ( Mouse ) 6,350 mg/l for 4 h ( Rat ) 3,907 mg/l for 6 h ( Mouse ) 8,000

mg/l for 4 h (Rat)

Toluene, CAS-No.: 108-88-3

Acute oral toxicity (LD-50 oral)

Acute inhalation toxicity (LC-50)

2,600 - 7,500 mg/kg (Rat) 5,000 mg/kg (Rat)

26,700 mg/l for 1 h (Rat) 400 mg/l for 24 h (Mouse) 5,320

mg/l for 8 h (Mouse) 12,124 mg/kg (Rabbit)

# **SECTION 12 - ECOLOGICAL INFORMATION**

Acute dermal toxicity (LD-50 dermal)

No Data Available

# SECTION 13 - DISPOSAL CONSIDERATIONS

**RCRA Class** 

: D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)

This classification applies only to the material as it was originally produced.

Disposal Method

Subject to hazardous waste treatment, storage, and disposal requirements under

RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in

compliance with federal, state and local regulations.

# SECTION 14 - TRANSPORTATION / SHIPPING DATA

#### CFR / DOT:

UN1263, Paint, 3, PG III

#### TDG:

UN1263, PAINT, 3, PG III

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# Material Safety Data Sheet



# TREM EPOXY RUST COAT PART B

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#### IMDG:

UN1263, PAINT, 3, PG III

# **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

# SECTION 15 - REGULATORY INFORMATION

#### North American Inventories:

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

#### U.S. Federal Regulations:

SARA 313 Components

Ethylbenzene

100-41-4

Xylene Toluene 1330-20-7 108-88-3

SARA 311/312 Hazards

: Acute Health Hazard

Chronic Health Hazard

Fire Hazard

# OSHA Hazardous Components:

Mica

12001-26-2

Crystalline Silica (Quartz)/ Silica Sand

14808-60-7

Bentonite

1302-78-9

Ethylbenzene

100-41-4

**Xylene** 

1330-20-7

Toluene

108-88-3

OSHA Status: Considered

: Irritant

hazardous based on the

Carcinogen

following criteria:

: IC

OSHA Flammability

: 296 g/l

Regulatory VOC (less water and

exempt solvent) VOC Method 310

: 19 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Crystalline Silica (Quartz)/ Silica Sand

14808-60-7

#### U.S. State Regulations:

MASS RTK Components

: Mica

12001-26-2

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

Benzyl alcohol

100-51-6

Silicon dioxide, amorphous

NJ TSRN# 51721300-5168P

Ethylbenzene

100-41-4

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**Xylene** Toluene 1330-20-7 108-88-3

Penn RTK Components

Mica

12001-26-2

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

Benzyl alcohol

100-51-6

Hydrocarbon Resin Aliphatic Polyamine NJ TSRN# 51721300-5679P NJ TSRN# 51721300-5678P

Styrene Resin

9003-53-6 108-65-6

1-Methoxy-2-propanol acetate Silicon dioxide, amorphous

NJ TSRN# 51721300-5168P

Bentonite

1302-78-9

1.2-Cyclohexanediamine

694-83-7 100-41-4

Ethylbenzene Xvlene

1330-20-7

Toluene

108-88-3

NJ RTK Components

Mica

12001-26-2

Crystalline Silica (Quartz)/ Silica Sand

14808-60-7

Benzyl alcohol

100-51-6

Hydrocarbon Resin Aliphatic Polyamine NJ TSRN# 51721300-5679P NJ TSRN# 51721300-5678P

Silicon dioxide, amorphous

NJ TSRN# 51721300-5168P

**Xylene** 

1330-20-7

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

14808-60-7

Crystalline Silica (Quartz)/ Silica Sand

100-41-4

Ethylbenzene

108-88-3

Toluene

# **SECTION 16 - OTHER INFORMATION**

# **HMIS Rating:**

Health	2
Flammability	3
Reactivity	1
PPE	

0 = Minimum

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

#### Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

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**DOT - Department of Transportation** 

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

RTK - Right To Know

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information

System