

PRECOM EPOXY, Part A

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Precom Epoxy, Part A

1.2. Intended Use of the Product

Use of the substance/mixture: Adhesive. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

LymTal International, Inc

4150 S Lapeer Rd

Orion, MI 48359

T 248-373-8100

www.lymtal.com

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300, In Washington DC 800-483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Irritant & Environmentally Damaging

2.2. Label Elements

GHS-US Labeling



Irritant

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1



Irritant

Acute hazards to the aquatic environment, category 2

Chronic hazards to the aquatic environment, category 2

Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1 Aq ACTox. 2 Aq ChrTox. 2

2.3. Signal Word

Warning

2.4. Hazard Statements

Causes skin irritation

May cause an allergic reaction

Causes serious eye irritation

Toxic to aquatic life with long lasting effects

Very toxic to aquatic life

2.5. Precautionary Statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children

Read label before use

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

Wash skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Avoid release to the environment

Do not eat, drink or smoke when using this product

IF ON SKIN: Wash with soap and water

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

Continue rinsing

If skin irritation occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

Take off contamination clothing and wash before reuse

Specific treatment (see supplemental first aid instruction on this label)

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SMS-0041 Rev.B

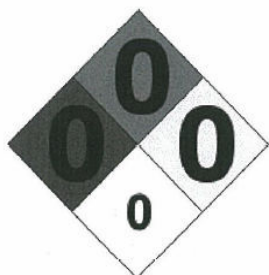
Collect spillage

Store locked up

Dispose of contents and container as instructed in Section 13

2.6. Other Non-GHS Classification

WHMIS NFPA/HMIS



NFPA SCALE (0-4)

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product Identifier	%
Bisphenol-A-(epichlorhydrin) and epoxy resin	CAS 25068-38-6	60-70%
[[[2-Ethylhexyl]oxy]methyl]oxirane	CAS 2461-15-16	6-8%
Titanium dioxide	CAS 13463-67-7	1-2%
Silica, amorphous, fumed, cryst.-free	CAS 112945-52-5	1-2%
Calcium Carbonate	CAS 471-34-1	20-30%

Percentages are by weight

3.2. Mixture

Not applicable

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

After inhalation: Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Seek medical assistance if cough or other symptoms appear.

After skin contact: Seek medical advice if discomfort or irritation persists. Wash hands and exposed skin with soap and plenty of water. Rinse/flush exposed skin gently using soap and water for 15-20 minutes.

After eye contact: Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or concerned.

After swallowing: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists. Rinse mouth thoroughly.

4.2. Most important symptoms and effects, both acute and delayed

Irritation. Shortness of breath. Headache. Nausea. Dizziness.; 2461-15-6: Inhalation – May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

PRECOM EXPOXY, PART A

Safety Data Sheet

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SMS-0041 Rev.B

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol resistant foam. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable Extinguishing Media: N/A

5.2. Special Hazards Arising From the Substance or Mixture

Thermal decomposition can lead to release of irritating gases and vapors. Combustion products may include carbon oxides or other toxic vapors.

5.3. Advice for Firefighters

Protection equipment: Wear protective eyewear, gloves, and clothing. Refer to section 8. Use NIOSH approved respiratory

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing. Avoid dust formation. decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Ensure that air-handling systems are operational. Wear protective equipment

6.2 Environmental Precautions

Should not be released into environment. Prevent from reaching drains, sewer, or waterway. Collect contaminated soil for characterization per Section 13

6.3 Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Always obey local regulation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder from using vacuum with (HEPA filter). Evacuate personnel to safe areas.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Avoid contact with skin, eyes, and clothing. Do not eat, drink, smoke, or use personal products

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed containers. Store with like hazards.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

471-34-1, NIOSH REL: TWA 10 mg/m³ (total) TWA 5 mg/m³ (resp)

13463-67-7, Titanium dioxide, ACGIH TLV: 10, OSHA PEL: 10

112945-52-5, Silica, amorphous, fumed, cryst.-free, ACGIH TLV

TWA: 10 mg/m³ (inhalable particles)

112945-52-5, Silica, amorphous, fumed, cryst.-free, OSHA PEL TWA: 15 mg/m³ (total dust)

PRECOM EXPOXY, PART A

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3
Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

Appropriate Engineering Controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Respiratory protection	Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.
Skin protection	Select glove material impermeable and resistant to the substance. Wear protective clothing. Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Select glove material based on rates of diffusion and degradation. Wear protective clothing. Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Chemically resistant gloves are recommended, but not required.
Eye Protection	Faceshield (8-inch minimum) with tightly fitting safety goggles are appropriate eyewear. Safety glasses or goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
General hygienic measures:	Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before reworking wash contaminated clothing. Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before reworking wash contaminated clothing. Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Before wearing wash contaminated clothing. Avoid contact with skin, eyes, and clothing. Before reworking wash contaminated clothing. Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing. Perform routine housekeeping.

PRECOM EXPOXY, PART A

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/09/2015

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SMS-0041 Rev.B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance: Paste

Color: White

Physical State: Mobile liquid

Odor: Almost odorless

Odor Threshold: No data available

pH-value: No data available

Melting Point/ Freezing Point: no data available

Boiling Point/Boiling Range: no data available

Flash Point (closed cup): > 212 °F (> 100 °C)

Evaporation rate: no data available

Flammability (solid, gaseous): no data available

Density: no data available

Explosion limit lower: no data available

Explosion limit upper: no data available

Vapor pressure: no data available

Vapor density: no data available

Relative density: no data available

Solubilities:

in water: insoluble (<.01%)

Partition coefficient (in octanol/water): no data available

Auto/Self-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Non-reactive under normal conditions.

10.2. Chemical Stability: Stable under normal conditions.

10.3. Possibility Hazardous Reactions: None under normal processing.

10.4. Conditions to Avoid: Incompatible materials.

10.5. Incompatible Materials: Strong oxidizing agents, acids, Amines, Bases.

10.6. Hazardous Decomposition Products: Carbon oxides. Titanium oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity:		
Oral:	25068-38-6	LD50 Oral - rat - 13,600 mg/kg
Oral:	2461-15-6	LD50 Oral - Rat - 7,800 mg/kg
Oral:	13463-67-7	LD50 Oral - rat - female - > 5,000 mg/kg
Inhalation:	13463-67-7	LC50 Inhalation - rat - male - 4 h - > 6.82 mg/l
Chronic Toxicity: No additional information.		
Corrosion Irritation: No additional information.		
Sensitization:	Will not occur	
Single Target Organ (STOT):	2461-15-6: Inhalation - May cause respiratory irritation. Specific target organ toxicity - single exposure (Category 3), Respiratory system,	
Numerical Measures:	No additional information.	
Carcinogenicity:	IARC: Group 3 (Not Classifiable) Monograph 68 [1997] (listed under Amorphous silica)	
Mutagenicity:	Hamster Lungs DNA inhibition. Hamster ovary Sister chromatid exchange	
Reproductive Toxicity:	No additional information.	

PRECOM EXPOXY, PART A

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/09/2015

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SMS-0041 Rev.B

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

2461-15-6: LC50 – Carassius auratus (goldfish) – 14 mg/l – 24 h

13463-67-7: LC50 – other fish - > 1,000 mg/l – 24 h

13463-67-7: EC50 – Daphnia magna (Water flea) - > 1,000 mg/l – 48 h

12.2. Persistence and Degradability

Persistence and Degradability	25068-38-6: Result: - According to the results of tests of biodegradability this product is not readily biodegradable
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12.3. Bioaccumulative Potential N/A

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Contact a licensed professional waste disposal service to dispose of this material. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Dispose of empty containers as unused product. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN-Number: N/A

14.2. UN proper shipping name N/A

14.3. Transport Hazard class(es)

Packing group:

Environmental hazard: Not regulated for transport

Transport in bulk:

Special precautions for user:

SECTION 15: REGULATORY INFORMATION

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

112945-52-5 Silica, amorphous, fumed, cryst.-free

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

PRECOM EXPOXY, PART A

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Revision Date : 08/03/2015

Other Information : This document has been prepared in accordance with the SDS requirements according to 29CFR1910/1200 and GHS.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR 1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/08/2015

Version: 1.0

SMS-0041 Rev.B

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Precom Epoxy, Part B

1.2. Intended Use of the Product

Use of the substance/mixture: Adhesive. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

LymTal International, Inc

4150 S Lapeer Rd

Orion, MI 48359

T 248-373-8100

www.lymtal.com

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300, In Washington DC 800-483-7616

In Washington DC 800-483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Irritant & Environmentally Damaging

2.2. Label

Elements GHS-US



Health hazard

Carcinogenicity, category 2

Reproductive toxicity, category 2



Irritant

Acute toxicity (oral, dermal, inhalation), category 4

Skin sensitization, category 1



Corrosive

Skin corrosion, category 1B

Serious eye damage, category 1

Skin corrosion, category 1B

Carcinogenicity - Category 2

Eye Damage 1

Skin sensitizer 1

Acute toxicity - Oral - Acute Tox. 4

Skin corrosion/irritation - Skin Corr. 1B

Reproductive Toxicity - Repr. 2

2.3. Signal Word

Danger

2.4. Hazard Statements

May cause an allergic skin reaction

Suspected of causing cancer

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

2.5. Precautionary Statements

If medical advice is needed, have product container or label on hand

Keep out of reach of children

Read label before use

Wash skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dust/fumes/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3
 Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Specific treatment (see supplemental first aid instructions on this label)
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Immediately call a POISON CENTER or doctor or physician
 Take off contaminated clothing and wash before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF ON SKIN: Wash with soap and water
 If skin irritation or a rash occurs: Get medical advice/attention
 Store in a well ventilated place. Keep container tightly closed
 Store locked up
 Dispose of contents and containers as instructed in Section 13

2.6. Combustible Dust Hazard: May form combustible dust concentrations in air (during processing).

2.7. Other Non-GHS Classification: May form combustible dust concentrations in air (during processing).

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	3
Flammability	2
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product Identifier	%
Polyamido Amine	CAS 68953-36-6	14-18%
Nonyphenol	CAS 84852-15-3	14-18%

Attapulgite Clay	CAS 12174-11-7	4-8%
2-piperazin-1-ylethylamine	CAS 140-31-8	4-7%
Percentages are by weight		

3.2. Mixture

Not applicable

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

After inhalation: Get medical assistance if cough or other symptoms appear. Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen.

After skin contact: Wash away any material which may have contacted the body with copious amounts of water or soap and water. Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Rinse or flush skin/hair gently with water for an additional 10 minutes. Seek immediate medical attention

After eye contact: Protect unexposed eye. Rinse or flush eye gently with water for at least 30 minutes, lifting upper and lower lids. Remove contact lens (es) if able to do so during rinsing. Seek immediate medical attention (ophthalmologist)

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person. Have exposed individuals drink sips of water.

4.2. Most important symptoms and effects, both acute and delayed

Headache. Nausea. Shortness of breath. Coughing. Irritation of the throat. Gastrointestinal tract irritation with nausea or diarrhea. Irritation/burns, all routes of exposure. May cause burns, deep penetrating ulcerations of the skin, delayed tissue destruction, redness, pain. May cause severe burns, blindness and/or permanent damage; May cause cancer. Lungs may be affected by repeated or prolonged exposure to fibers, resulting in fibrosis. 12174-11-7: Acute pneumoconiosis or silicosis from overwhelming exposure to crystalline silica dust has occurred. 12174-11-7: Inhalation may increase the progression of tuberculosis; susceptibility is apparently not increased. 12174-11-7: Persons with impaired respiratory function may be more susceptible to the effects of this substance. Smoking can increase the risk of lung injury.

4.3. Indication of any immediate medical attention and special treatment needed

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Agents: Use water spray to knock-down vapors. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Substance is non-flammable. Alcohol foam, dry chemical, or carbon dioxide. If large quantities of combustibles are involved, use water flooding quantities as spray and fog.

For safety reasons unsuitable extinguishing agents: Do not use water on material itself; water or foam may cause frothing. Do not use water jet.

5.2. Special Hazards Arising From the Substance or Mixture

Combustion products may include carbon oxides or other toxic vapors. Carbon oxides, nitrogen oxides (NOx). Combustible dusts formation is a risk. Powerful oxidizers may cause fire. Powerful oxidizers may cause explosions.

5.3. Advice for Firefighters

Protection equipment: Use NIOSH-approved respiratory protection/breathing apparatus. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Avoid breathing vapors. Keep upwind.

Additional information (precautions): Move product containers away from fire or keep cool water spray as a protective measure, where feasible. If material not on fire and not involved in fire; Keep sparks flames, and other sources of ignition away. Keep material out of water sources and sewers. Build dikes to contain flow as a necessary. Avoid contact with skin, eyes, and clothing. Heat flame,

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3
Revision Date: 08/03/2015

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Version: 1.0

SMS-0041 Rev.B

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation. Land spill: Dig a pit, pond, lagoon, holding area (should be sealed with an impermeable flexible membrane liner) to contain liquid or solid material. Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Absorb bulk liquid with fly ash or cement powder. Neutralize as noted for water spill. Water spill: Neutralize with agricultural lime (CaO). Crushed limestone (CaCO₃), or sodium bicarbonate (NaHCO₃). If dissolved, in region of 10ppm or greater concentration, apply activated carbon at ten times the spilled amount. Use mechanical methods to collect and containerize for disposal (see Section 13). Use spark-proof tools and explosion-proof equipment.

6.2 Environmental Precautions

Prevent from reaching drains, sewer, or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment

6.3 Methods and material for containment and cleaning up:

Keep in suitable closed containers for disposal. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. If contact with the material anticipated, wear appropriate chemical protective clothing. Avoid bodily contact with the material. ... Do not handle broken packages unless wearing appropriate personal protective equipment. Wash away any material which may have contacted the body with copious amounts of water or soap and water. Do not handle broken packages unless wearing appropriate personal protective equipment. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Personal protection: P2 filter respirator for harmful particles. Contain spillage. Collect with an electrically protected vacuum cleaner or by wet-brushing. Place in container for disposal according to local regulations. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter)

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Avoid contact with skin, eyes, and clothing. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do NOT take working clothes home. Prevent dispersion of dust; if this occurs, avoid all contact! Combustible dusts formation is a risk

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Store away from incompatible materials. Store locked up. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed containers. Store with like hazards

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1. Control Parameters

OSHA PEL TWA (Total Dust) 15 mg/m³ (50 mppcf*)

ACGIH TLV TWA (inhalable particles) 10 mg/m³

471-34-1, NIOSH REL: TWA 10 mg/m³ (total) TWA 5 mg/m³ (resp)

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3
Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

Appropriate Engineering Controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood
Respiratory protection	When necessary use NIOSH approved breathing equipment. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. P2 filter respirator for harmful particles
Skin protection	Select glove material impermeable and resistant to the substance. Wear protective clothing. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Eye Protection	Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.
General hygienic measures:	Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance (physical state, color): paste

Odor: amine-like

Odor Threshold: no data available

pH-value: no data available

Melting Point/ Freezing Point: no data available

Boiling Point/Boiling Range: no data available

Flash Point (closed cup): no data available

Evaporation rate: no data available

Flammability (solid, gaseous): no data available

Density: 2.1 g/cm³ at 68 °F (20 °C)

Explosion limit lower: no data available

Explosion limit upper: no data available

Vapor pressure: no data available

Vapor density: no data available

Relative density: no data available

Solubilities: no data available

Partition coefficient (in octanol/water): no data available

Auto/Self-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity:

a. Kinematic: no data available

b. Dynamic: no data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Non-reactive under normal conditions.

10.2. Chemical Stability: Stable under normal conditions. Chemically inert; properties are not affected by change in pH

10.3. Possibility Hazardous Reactions: None under normal processing.

10.4. Conditions to Avoid: Incompatible materials. Heat Sensitive. Heat, flame, spark

10.5. Incompatible Materials: Strong acids. Strong oxidizing agents. Strong bases. Oxidizing agents, Oxidizing agents. Hydrogen Fluoride. Acetylene and ammonia. Hydrofluoric Acid. Strong acids. Strong bases.

10.6. Hazardous Decomposition Products: Carbon oxides. Nitrogen oxides. Ammonia. When heated to decomposition it emits acrid smoke and irritation fumes. Corrosive gas silicon Tetrafluoride. Carbon oxides, nitrogen oxides (NO_x)

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity:		
Oral:	IUCLID	LOSO Rat 6450 mg/kg
Dermal:	84852-15-3	Dermal LD50 Rabbit 2031 mg/kg
Oral:	84852-15-3	Oral LD50 Rat 580 mg/kg
Oral:	2,097 mg/kg	LD50 rat
Dermal:	866 mg/kg	LD50 rabbit
Chronic Toxicity:		
Inhalation:	Experimental carcinogenicity is associated with respirable fibres greater than 5 micrometers in length.	Depending on the degree of exposure, periodic medical examination is suggested. Fibre length varies with the source of the mineral.
Corrosion Irritation:		
Dermal: 12174-11-7		Dermal: May cause chemical mechanical irritation of the skin.
Ocular: 12174-11-7		May cause mechanical irritation of the eyes.
Sensitization:		12174-11-7: Can cause irritation to the respiratory tract.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		Acute Toxicity Estimate (ATE) – oral: 2000 mg/kg
Carcinogenicity:		IARC; Group 2B (Possibly Carcinogenic to Humans) Monograph 68 [1997] (long fibres >5 µm); Supplement 7 [1987] 12174-11-7: May cause lung damage if exposure if repeated or prolonged.
Mutagenicity:		No additional information
Reproductive Toxicity:		84852-15-3: Suspected human reproductive toxicant

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Fish (acute 84852-15-3): 96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351mg/L [flow-through]

Crustacea (acute 84852-15-3): 48 Hr EC50 Daphnia magna: 0.14 mg/L

Algae (acute 84852-15-3): 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 1.3 mg/L

LC50 Pimephales promelas (fathead minnow): 2,190 mg/l-96 h

EC50 Daphnia magna (Water flea): 58 mg/l- 48 h

EC50 Pseudokirchneriella subcapitata (Selenastrum capricornutum): 495 mg/l- 72 h

12.2. Persistence and Degradability

12174-11-7: long term degradation products may arise. aerobic – Exposure time 28 d Result:

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015

Date of Issue: 03/09/2015

Version: 1.0

SMS-0041 Rev.B

0% - Not readily biodegradable. (OECD Test Guideline 301F)

12.3. Bioaccumulative Potential BCF (84852-15-3): 271 species: fish

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN-Number: N/A

14.2. UN proper shipping name N/A

14.3. Transport Hazard class(es)

Packing group:

Environmental hazard: DOT regulated marine pollutant

(84852-15-3)

Transport in bulk:

Special precautions for user:

SECTION 15: REGULATORY INFORMATION

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Relative, Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

84852-15-3-1.0% de minimis concentration (listed under Chemical Category Nonylephenol)

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients is listed

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

12174-11-7 Attapulgite clay >5 µm in length)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

08/03/2015

EN (English)

PRECOM EPOXY, Part B

Safety Data Sheet

According to 29CFR1910/1200 and GHS Rev. 3

Revision Date: 08/03/2015 Date of issue: 02/09/2015

Version: 1.0

SMS-0041 Rev.B

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Revision Date : 08/03/2015

Other Information : This document has been prepared in accordance with the SDS requirements according to 29CFR1910/1200 and GHS.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.