



MATERIAL SAFETY DATA SHEET

Date Printed: 03/14/2017

Product Name: FUSE-TITANIUM

Product Code:

Evcor Solutions Inc., 6107 - 530 Adelaide Street West, Toronto, ON, M5V 1T5

24-hour Emergency Phone: 610-286-2500

1. COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

Manufacturer:

**Evcor Solutions Inc.
6107 - 530 Adelaide Street West
Toronto, ON, M5V 1T5
1-800-860-1537
Web: www.evcorsolutions.com**

ChemTrec Emergency No.1(800)424-9300

Contract # CCN 17567

Product name:

FUSE-TITANIUM

Product Code:

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Specific use:

Epoxy putty for high temperature use

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/Occupational Exposure Limits

CAS RN

TALC		14807-96-6
OSHA PEL 20 mppcf TWA		
ACGIH TLV 2 mg/m3 TWA		
Polyamide Resin		68410-23-1
DERMAL: 6.5 gm/kg LD50 (Rabbit)		
ORAL: >16 gm/kg LD50 (Rat)		
SKIN IRRITATION:1.2 (Scale 0-8) (Rabbit)		
CALCIUM CARBONATE, SYNTHETIC		471-34-1
BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN		25068-38-6
DIGLYCIDYL ETHER OF BISHENOL A		25036-25-3
ZINC SULFIDE		1314-98-3
Oral LD50: >2,000 mg/kg (rat)		
Inhalation LC50: > 5,040 mg/m3 /4h (rat)		
ACGIH TLV: 15 mg/m3 as dust		
OSHA/PEL: 15 mg/m3 as dust		
CALCINED KAOLIN CLAY		66402-68-4
OSHA TWA 15 mg/m3		
ACGIH TWA 10 mg/m3		
SILICA, CRYSTALLINE QUARTZ		14808-60-7
OSHA PEL 30 mg/m3 /% SiO2+2 TWA (total dust)		
OSHA PEL 250 mppcf/%SiO2 (respirable) OR		
10 mg/m3/%SiO2+2 (respirable)		



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ACGIH TLV 0.025 mg/m³ TWA (respirable)

3. HAZARD IDENTIFICATION

WARNING !

Health and Physical Hazards

Irritant: Product contains chemicals known to cause skin and eye irritation and may cause sensitization by skin contact.

Routes of Exposure Target Organs

Inhalation -Yes	Blood -No
Skin contact -Yes	Eyes -Yes
Eye contact -Yes	Kidneys -No
Ingestion -Yes	Liver -No
Lungs -Yes	
Central nervous system -Yes	
Reproductive -No	
Skin -Yes	

Inhalation

May cause irritation to the respiratory tract and coughing (sneezing).

Skin

Prolonged or repeated skin contact may cause irritation and allergic skin reaction or sensitization.

Eyes

Contact with product may cause moderate eye irritation.

Ingestion

May cause irritation of the gastrointestinal tract and digestive discomfort.

Other

No data found.

4. FIRST AID MEASURES

Inhalation

Remove to fresh air. If respiratory difficulties continue, seek immediate medical care.

Skin contact

Wash affected area with plenty of soap and water. If irritation persists, seek medical care.

Eye contact

Flush eyes thoroughly with water for at least fifteen minutes. If



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discomfort occurs, consult a physician, preferably an ophthalmologist.

Ingestion

Do not induce vomiting. Seek medical care immediately if ill effects occur.

Note to Physician

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point:

> 200°F, (> 93°C)

Method:

Setaflash Closed Cup ASTM E502.

Explosion Limits:

Lower (LEL)

No data found.

Upper (UEL)

No data found.

Extinguishing Media

Foam, alcohol foam, CO₂, dry chemical, water fog.

Specific Methods

Use water spray to fight fires. Cool endangered containers with water. Fire

fighters should wear full protective clothing including a self-contained

breathing apparatus (SCBA).

Unusual Hazards

No data found.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Keep nonessential personnel away from the contaminated area.

Avoid contact with skin, eyes and clothing. Use appropriate Personal Protective Equipment (PPE). For guidance on selection of PPE see Section 8, "Engineering Control and Personal Protective Equipment" of this MSDS. Ensure adequate ventilation.

Environmental Precautions

Prevent this material from contaminating surrounding environment.



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Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

Methods for Cleanup

Sweep, shovel and collect material into a covered container. Dispose of according to all applicable state, provincial, federal and local regulations.

7. HANDLING AND STORAGE

Handling

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times. Empty Container Precautions: Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur.

Storage

Keep containers closed when not in use in well-ventilated place. Store at room temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use with adequate local ventilation especially in confined areas. In industrial applications, ensure ventilation is in compliance with occupational exposure limits.

Respiratory Protection

Local exhaust is recommended to ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory equipment should be worn if material is to be sanded and/or sawed to avoid inhalation of airborne particles. If needed, use a NIOSH/MSHA approved respirator equipped with organic vapor cartridges and P100 filters. For emergencies and unknown concentrations, use supplied air respiratory protection or a positive-pressure, self-contained, breathing apparatus (SCBA).

Hand Protection

If product contact is anticipated, wear chemical resistant gloves.

Eye Protection

Wear safety glasses with side shields or goggles.

Skin Protection

If product contact is anticipated, wear protective clothing.



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Other Data

Good personal hygiene and good housekeeping are important. Spilled material may cause the floor or contaminated area to become a safety hazard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Solid

Appearance

Concentric cylinder

Color

Bronze, Tan

Odor

Pungent, Sulfur

Density

16.24 lb/gal

Specific Gravity pH

1.95

Boiling Point

Not applicable

Vapor Density

Not determined

Evaporation Rate

Not applicable

lbs VOC less water and exempt solvents

0lb

Density Percent Volatile by Volume

0%

Specific Gravity pH

Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability

This product is stable.

Incompatibility

Strong oxidizers, acids, and bases.

Hazardous Decomposition Products

Carbon dioxide, aldehydes, acids, and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

QUARTZ, CAS NO 14808-60-7

Oral LD50 Rat 500 mg/kg

BISPHENOL A - EPICHLOROHYDRIN POLYMER, CAS NO 25068-38-6

Oral LD50 Rat 11400 mg/kg

Calcium Carbonate, Synthetic CAS:471-34-1

Oral LD50 Rat 6450 mg/kg

Chronic Toxicity

Talc, CAS14807-96-6



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Fibrosis was observed in rats exposed to 6 mg/m³ of hydrous magnesium silicate (talc) for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m³ of airborne talc ore free of asbestos and silica. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous production and shortness of breath upon exertion. Product is a non respirable form.

Silica Crystalline Quartz CAS 14808-60-7:

Toxic effects (Humans) - fibrosis, pneumoconiosis, cough, difficult breathing.

Carcinogenic Effects

Silica, Crystalline Quartz CAS 14808-60-7

ACGIH, A2 - Suspected Human Carcinogen

IARC, Group 1 - Carcinogenic to Humans, Monograph 100C, Monograph 68

Mutagenic Effects

Silica Crystalline Quartz CAS 14808-60-7:

Mutagenic effects have occurred in humans.

Reproductive Toxicity

Silica, Crystalline Quartz CAS 14808-60-7:

No data found on Reproductive and Teratogenic effects.

12. ECOLOGICAL INFORMATION

Ozone Depletion Potential

No ozone depleting chemical(s) are present in this product.

13. DISPOSAL CONSIDERATIONS

Method

As the US Environmental Protection Agency (EPA), state, regional, and other regulatory agencies may have jurisdiction over the disposal of the waste generated, it is incumbent upon waste generators to learn of and satisfy all of the waste disposal requirements which affect them. The following US EPA Hazardous Waste Numbers are applicable to the unadultrated product if it enters the "waste stream".

US EPA Hazardous Waste Numbers

None



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14. TRANSPORTATION INFORMATION

UN Number

Not hazardous for transport

Proper Shipping Name

IMDG and ICAO/IATA: Not hazardous for transport

Hazard Class

Not regulated

Packing Group

Not regulated

Marine Pollutant

Component

Not hazardous for transport

Cas RN

ERG Guide Book Number

Not regulated

Special Precautions

Not regulated

Emergency Schedule (EMS) - FIRE

Not regulated

Emergency Schedule (EMS) - SPILL

Not regulated

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS

United States TSCA: All ingredients are TSCA listed.

Canada DSL: All ingredients are either listed or exempt.

Canada NDSL: All ingredients are either listed or exempt.

EINECS: All the chemicals in this product are listed in the inventory.

Europe ELINCS: Not evaluated

Korea: Not evaluated

China Inventory: Not evaluated

Australia AICS: Not evaluated

Japan ENCS: Not evaluated

Philippines PICCS: Not evaluated

Legend

TSCA: Toxic Substance Control Act

DSL: Domestic Substance List

NDSL: Non-Domestic Substance List

EINECS: EU Inventory of Existing Commercial Chemical Substances

ELINCS: EU List of Notified Chemical Substances

ECL: Existing Chemicals List



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AICS: Inventory of Chemical Substances

ENCS: Existing and New Chemical Substances

PICCS: Philippines Inventory of Chemicals

US Federal Regulations

SARA 311/312

EPA Hazard Class:

Immediate: Yes

Delayed: Yes

Pressure: No

Reactivity: No

Flammable: No

SARA 313

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

TSCA 12(b)

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

CERCLA RQs

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

CERCLA 102(a) /103 Hazardous Substances

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

SARA 302/CERCLA 355 Extremely Hazardous Substances

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

CAA- Clean Air Act Section 112 HAPS

Component

CAS RN

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

STATE REGULATIONS

CALIFORNIA PROPOSITION 65

Component

CAS RN

SILICA, CRYSTALLINE QUARTZ

14808-60-7

CARBON BLACK

1333-86-4

MA Right-to-Know

Component

CAS RN

TALC

14807-96-6

CALCIUM CARBONATE, SYNTHETIC

471-34-1

NJ Right-to-Know

Component

CAS RN

TALC

14807-96-6



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BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN	25068-38-6
DIGLYCIDYL ETHER OF BISHENOL A	25036-25-3
ZINC SULFIDE	1314-98-3
CALCINED KAOLIN CLAY	66402-68-4
PURE TITANIUM POWDER	7440-32-6

PA Right-to-Know

Component

	CAS RN
TALC	14807-96-6
CALCIUM CARBONATE, SYNTHETIC	471-34-1
BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN	25068-38-6
DIGLYCIDYL ETHER OF BISHENOL A	25036-25-3
ZINC SULFIDE	1314-98-3
CALCINED KAOLIN CLAY	66402-68-4

WI HAPS

Component

	CAS RN
TALC	14807-96-6

MN Right-to-Know

Component

	CAS RN
CALCIUM CARBONATE, SYNTHETIC	471-34-1
DIGLYCIDYL ETHER OF BISHENOL A	25036-25-3

16. OTHER INFORMATION

HMIS:

Health: 1
Fire: 0
Reactivity: 0
PPE: B

Non-Warranty:

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MSDS Status: APPROVED

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