



## MATERIAL SAFETY DATA SHEET

Date Printed: 03/11/2011

**Product Name: FUSE-ALUMINIUM**

**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-ALUMINUM

**Product Code:**

FG600457050-24

**Specific use:**

Epoxy putty for aluminum substrates

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Component/Occupational Exposure Limits**

**CAS RN**

TALC

14807-96-6

OSHA PEL 20 mppcf TWA

ACGIH TLV 2 mg/m<sup>3</sup> TWA

BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN

25068-38-6

DIGLYCIDYL ETHER OF BISHENOL A

25036-25-3

ALUMINIUM POWDER

7429-90-5

OSHA PEL 15 mg/m<sup>3</sup> TWA (total dust)

OSHA PEL 5 mg/m<sup>3</sup> TWA (respirable fraction)

ACGIH TLV 1 mg/m<sup>3</sup> TWA (respirable fraction)

AMORPHOUS SILICA, SILOXANES & SILICONES

67762-90-7

2,4,6-TRIS (DIMETHYLAMINOMETHYL) PHENOL

90-72-2

SILICA, CRYSTALLINE QUARTZ

14808-60-7

OSHA PEL 30 mg/m<sup>3</sup> /% SiO<sub>2</sub>+2 TWA (total dust)

OSHA PEL 250 mppcf/%SiO<sub>2</sub> (respirable) OR

10 mg/m<sup>3</sup>/%SiO<sub>2</sub>+2 (respirable)

ACGIH TLV 0.025 mg/m<sup>3</sup> TWA (respirable)

### 3. HAZARD IDENTIFICATION

WARNING !

#### **Health and Physical Hazards**



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**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 discomfort occurs, consult a physician, preferably an ophthalmologist.

### **Ingestion**



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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. Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if



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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.

### **Other Data**



**MATERIALSAFETYDATASHEET**

Date Printed: January 1, 2015

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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**

Grey, Grey

**Odor**

Pungent, Sulfur

**Density**

16.08 lb/gl

**Specific Gravity**

1.93

**Boiling Point**

Not applicable

**Vapor Density**

Not determined

**Evaporation Rate**

Not applicable

**lbs VOC less water and exempt solvents**

0lb

**Percent Volatile by Volume**

0%

**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

DIISODECYL PHTHALATE (MIXED ISOMERS), CAS NO 68515-49-1

Oral LD50 Rat >60000 mg/kg

Dermal LD50 Rabbit 16000 mg/kg

TRI (DIMETHYLAMINOMETHYL) PHENOL, CAS NO 90-72-2

Oral LD50 Rat 1000 mg/kg

Dermal LD50 Rat 1280 mg/kg

**Chronic Toxicity**

Talc, CAS14807-96-6



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Fibrosis was observed in rats exposed to 6 mg/m<sup>3</sup> 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/m<sup>3</sup> 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**

DIISODECYL PHTHALATE (MIXED ISOMERS), CAS NO 68515-49-1

Freshwater Fish

96 Hr LC50 Pimephales promelas: >0.66 mg/L [static]

96 Hr LC50 Pimephales promelas: >1 mg/L [flow-through]

96 Hr LC50 Oncorhynchus mykiss: >1 mg/L [static]

96 Hr LC50 Oncorhynchus mykiss: >0.62 mg/L [flow-through]

96 Hr LC50 Lepomis macrochirus: >0.55 mg/L [static]

Freshwater Algae

96 Hr EC50 Pseudokirchneriella subcapitata: >1.3 mg/L

### **Ozone Depletion Potential**

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

## **13. DISPOSAL CONSIDERATIONS**

### **Method**



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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 unadulterated product if it enters the "waste stream".

**US EPA Hazardous Waste Numbers**

None

**14. TRANSPORT 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.



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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  
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**





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

**STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

**Component**

SILICA, CRYSTALLINE QUARTZ

TS

**CAS RN**

14808-60-7

68515-49-1

**MA Right-to-Know**

**Component**

TALC

ALUMINIUM POWDER

**CAS RN**

14807-96-6

7429-90-5

**NJ Right-to-Know**

**Component**

TALC

BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN

DIGLYCIDYL ETHER OF BISHENOL A

ALUMINIUM POWDER

**CAS RN**

14807-96-6

25068-38-6

25036-25-3

7429-90-5

**PA Right-to-Know**

**Component**

TALC

BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN

DIGLYCIDYL ETHER OF BISHENOL A

ALUMINIUM POWDER

**CAS RN**

14807-96-6

25068-38-6

25036-25-3

7429-90-5

**WI HAPS**

**Component**

TALC

**CAS RN**

14807-96-6

**MN Right-to-Know**

**Component**

DIGLYCIDYL ETHER OF BISHENOL A

**CAS RN**

25036-25-3

**16. OTHER INFORMATION**

**HMIS:**

Health: 1

Fire: 0

Reactivity: 0

PPE: B

**Non-Warranty:**

The information presented in this publication is based upon the research and experience of Evcor Solutions Inc. No representation or warranty is made, however, concerning the accuracy or



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