

# MATERIAL SAFETY DATA SHEET

Date Prepared: 3/8/05  
Aluminox Epoxy Stick

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MSDS Number: 130034

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: Aluminox Epoxy Stick  
Product Numbers: 108020  
Product Use: Epoxy Resin and Hardener

### Company

Fibre Glass-Evercoat  
a Division of Illinois Tool Works Inc.  
6600 Cornell Road  
Cincinnati, Ohio USA  
Phone: 513-489-7600

### Emergency Telephone Numbers:

CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient(s)                         | CAS Number  | EINECS Number | % (by weight) |
|---------------------------------------|-------------|---------------|---------------|
| Glass Enamel                          | 65997-17-3  | 266-046-0     | 25 – 30       |
| Bisphenol A/<br>Epichlorohydrin Resin | 25068-38-6  | N/L           | 15 – 20       |
| Polymercaptan                         | Proprietary | Proprietary   | 10 – 15       |
| n-Aminoethylpiperazine                | 140-31-8    | 205-411-0     | 1 – 5         |
| Aluminum Oxide                        | 1344-28-1   | 215-691-6     | 1 – 5         |
| Quartz (Crystalline Silica)           | 14808-60-7  | 238-878-4     | 0 – 2         |

\* The ingredients and percentages listed are based on the resin and hardener mixture.  
OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

## SECTION 3. HAZARDS IDENTIFICATION

### \*\*\*EMERGENCY OVERVIEW\*\*\*

WARNING! MAY CAUSE ALLERGIC SKIN REACTION OR SENSITIZATION.  
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. HARMFUL IF  
SWALLOWED.

### Potential Health Effects

#### Acute Effects (Short Term):

**Eye:** Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.

**Skin:** May cause skin irritation. Prolonged or repeated contact may cause allergic skin reaction. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

**Swallowing:** Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

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**Inhalation:** Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

### Chronic Effects of Overexposure (Long Term):

**Epoxy Resin:** Prolonged or repeated contact may cause allergic skin reaction.

**Aluminum Oxide:** The substance may have effects on the central nervous system.

**Crystalline Silica:** Crystalline silica is considered to be hazardous by inhalation, and is a potential human carcinogen (IARC Group 1). The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Crystalline silica may also produce silicosis, which is a non-cancerous lung disease.

**Cancer Information:** The International Agency for Research on Cancer (IARC) has classified crystalline silica as a group 1 carcinogen (sufficient evidence of carcinogenicity in humans).

**Other Health Effects:** None known.

**Primary Route(s) of Entry:** Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

### **SECTION 4. FIRST AID MEASURES**

**Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

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### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** >500 °F (>260 °C)

**Explosive Limit:** Lower: N/A Upper: N/A

**Autoignition Temperature:** N/E

**OSHA Flammability Class:** Combustible Liquid – Class IIIB

**Hazardous Products of Combustion:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, chlorine, sulfur oxide and nitrogen oxide and various hydrocarbons.

**Fire and Explosion Hazards:** Material may burn although not readily ignitable.

**Extinguishing Media:** Regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions:** Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

**NFPA Rating:** Health - 1, Flammability - 1, Reactivity - 0

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**In Case of Spill:** Absorb spillage on inert material and discard in suitable container.

### SECTION 7. HANDLING AND STORAGE

**Handling:** All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapors or spray mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

**Storage:** Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are recommended.

**Skin Protection:** Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

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**Respiratory Protection:** None required at normal handling temperatures and conditions. Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors if necessary.

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

### Exposure Guidelines:

| Hazardous Ingredients | CAS Number | OSHA PEL/TWA         | ACGIH TLV              |
|-----------------------|------------|----------------------|------------------------|
| Glass Enamel          | 65997-17-3 | 5 mg/m <sup>3</sup>  | 10 mg/m <sup>3</sup>   |
| Aluminum Oxide        | 1344-28-1  | 15 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup>   |
| Crystalline Silica    | 14808-60-7 | N/E                  | 0.05 mg/m <sup>3</sup> |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                          |   |                             |
|---|--------------------------|---|-----------------------------|
| <b>Boiling Point:</b>                       | Not Determined.          | <b>Vapor Density:</b>                                     | Heavier than air.           |
| <b>Specific Gravity / Density:</b>          | 1.9/15.83 lbs/gal        | <b>Percent Volatiles by weight:</b>                       | 0 %                         |
| <b>Evaporation Rate:</b>                    | Slower than ethyl ether. | <b>Physical State:</b>                                    | Paste                       |
| <b>Melting Point:</b>                       | Not Determined           | <b>pH (5% solution):</b>                                  | 9.5                         |
| <b>Odor:</b>                                | Slight odor.             | <b>Solubility:</b>  | Insoluble in water.         |
| <b>Vapor Pressure:</b>                      | Nil @78°F/ 25.5°C        | <b>Appearance:</b>  | Dark Gray with Green Center |
| <b>Octanol/Water Partition Coefficient:</b> | N/E                      | <b>VOC (as applied (1:1 mix) less exempts and water):</b> | 0 lbs/gal or 0 g/L          |

## SECTION 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Product will not undergo hazardous polymerization.

**Hazardous Decomposition:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, chlorine, sulfur oxide and nitrogen oxide and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.

**Incompatibility:** Avoid contact in uncontrolled conditions with: strong acids, strong oxidizing agents and strong bases.



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**SARA Title III: Section 302-** Extremely Hazardous Substances

None

**SARA Title III: Section 313-** Toxic Chemical List

| <u>Component</u> | <u>CAS Number</u> | <u>Percentage</u> |
|------------------|-------------------|-------------------|
| Aluminum Oxide   | 1344-28-1         | 1 – 5%            |

### International Regulations

**EINECS (Europe)** The intentional ingredients of this product are listed.

**DSL (Canada)** The intentional ingredients of this product are listed.

#### **WHMIS Classification**

**Health Hazard:** D2B (Other toxic effects)

**Physical Hazard:**

#### **Consumer Classification**

**Toxic Products:** Not classified

**Corrosive Products:** Irritant

**Flammable Products:** Not Classified

**Quick Skin-Bonding Adhesives:** Not Applicable

**Pressurized Container Products:** Not Applicable

### State and Local Regulations

#### **California Proposition 65:**

This product contains the following chemical(s) known to the state of California to cause cancer. PHENYL GLYCIDYL ETHER, CRYSTALLINE SILICA

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

### **SECTION 16. OTHER INFORMATION**

**HMIS Rating:** Health – 1, Flammability - 1, Reactivity - 0  
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, \*=Chronic Effects

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

**NOTICE:** The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.