

# MATERIAL SAFETY DATA SHEET

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Metal-2-Metal

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## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: Metal-2-Metal  
Product Numbers: 100889, 196238  
Product Use: Reinforced bodyfiller

### 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

<u>Ingredient(s)</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>% (by weight)</u>
Polyester Resin (Non-Hazardous)	Proprietary	Proprietary	30 – 35
Styrene	100-42-5	202-851-5	15 – 20
Aluminum Powder	7429-90-5	231-072-3	15 – 20
Talc	14807-96-6	238-877-9	10 – 15
Calcium Carbonate	1317-65-3	215-279-6	5 – 10
Magnesite	546-93-0	208-915-9	1 – 5
Quartz (Crystalline Silica)	14808-60-7	238-878-4	0 – 2

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

## SECTION 3. HAZARDS IDENTIFICATION

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

WARNING! COMBUSTIBLE LIQUID AND VAPOR.  
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

### 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 mild skin irritation. Prolonged or repeated contact may dry the skin. 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):**

**Styrene:** Excessive overexposure to styrene has been found to cause the following effects in humans and may aggravate pre-existing disorders of these organs; central nervous system effects, effects on hearing, mild effects on color vision and respiratory tract damage.

**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 styrene as a group 2B carcinogen (possibly carcinogenic to humans). This classification is not based on evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B, and consideration of new data on styrene oxide(Group 2A). The IARC has classified crystalline silica as a group 1 carcinogen (sufficient evidence of carcinogenicity in humans).

**Other Health Effects:** NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**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

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give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

**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.

### **SECTION 5. FIRE FIGHTING MEASURES**

**Flash Point:** 102.2 °F (39.0 °C)

**Explosive Limit:** Lower: 1.1% Upper: 6.1%

**Autoignition Temperature:** 914.0 °F (490.0 °C)

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

**Hazardous Products of Combustion:** May form: carbon dioxide, carbon monoxide, styrene oxide, sulfur oxides, aniline and various hydrocarbons.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

**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 - 2, Flammability - 3, Reactivity - 2

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**In Case of Spill:** Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

### **SECTION 7. HANDLING AND STORAGE**

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**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 sanding dust, 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.

**Respiratory Protection:** Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

**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:**

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV</u>
Aluminum Powder	7429-90-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium Carbonate	1317-65-3	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>
Magnesite	546-93-0	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Styrene	100-42-5	100 ppm	20 ppm
Talc	14807-96-6	20 mppcf	2 mg/m <sup>3</sup>

Mppcf- millions of particles per cubic foot of air      N/E-Not Established

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Boiling Point:</b>	293 °F/ 145 °C (Styrene)	<b>Vapor Density:</b>	Heavier than air.
<b>Specific Gravity / Density:</b>	1.48 / 12.33 lbs/gal	<b>Percent Volatiles by weight:</b>	15 – 20 %
<b>Evaporation Rate:</b>	Slower than ethyl ether.	<b>Physical State:</b>	Paste
<b>Melting Point:</b>	-23.1 °F / -30.6 °C (Styrene)	<b>pH:</b>	Neutral
<b>Odor:</b>	Sharp, aromatic odor.	<b>Solubility:</b>	Insoluble in water.
<b>Vapor Pressure:</b>	5.0 mmHg @ 68 °F / 20 °C (Styrene)	<b>Appearance:</b>	Gray Paste
<b>Octanol/Water Partition Coefficient:</b>	Unknown	<b>VOC (as packaged-less exempts and water):</b>	2.11 lbs/gal or 253 g/L
		<b>VOC (as applied*-2%by wt hardener-less exempts and water):</b>	0.55 lbs/gal or 66 g/L

**\*NOTE:** The applied VOC is lower than the packaged VOC due to a reactive diluent (styrene) that reacts and becomes non-volatile (bonded in the solid material) when the hardener is added.

## SECTION 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to extreme heat.

**Hazardous Decomposition:** May form: carbon dioxide, carbon monoxide, styrene oxide, sulfur oxides, aniline and various hydrocarbons.

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

**Incompatibility:** Avoid contact in uncontrolled conditions with: peroxides, strong acids, halogenated hydrocarbons, strong bases, strong oxidizing agents and polymerization catalysts.

## SECTION 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity Data:**

<b>Ingredient</b>	<b>CAS #</b>	<b>LD<sub>50</sub> Oral-Rat</b>	<b>LC<sub>50</sub> Inhalation-Rat</b>
Styrene	100-42-5	5,000 mg/kg	24 g/m <sup>3</sup> /4H
Calcium Carbonate	1317-65-3	6,450 mg/kg	N/E

N/E-Not Established

**Carcinogenicity:** See Cancer Information, Section 3.

**Mutagenicity:** No significant evidence found.

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**Teratogenicity:** No significant risk of birth defects or reproductive toxicity of styrene to humans.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

### SECTION 13. DISPOSAL CONSIDERATION

**RCRA Hazardous Waste:** This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

**RCRA Hazard Class:** This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

### SECTION 14. TRANSPORT INFORMATION

**DOT Description:** The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

### SECTION 15. REGULATORY INFORMATION

#### US Federal Regulations

##### **TSCA (Toxic Substances Control Act) Status**

TSCA (USA) The intentional ingredients of this product are listed.

##### **CERCLA RQ - 40 CFR 302.4(a)**

<u>Component</u>	<u>RQ (lbs.)</u>
Styrene	1000

##### **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>
Styrene	100-42-5	15-20%
Aluminum Powder	7429-90-5	15-20%

#### International Regulations

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

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

### WHMIS Classification

**Health Hazard:** D2A, D2B (Other Toxic Effects)

**Physical Hazard:** B2 (Flammable)

### State and Local Regulations

#### California Proposition 65:

This product contains the following chemical(s) known to the state of California to cause cancer. ANILINE, CHROMIUM METALS, STYRENE OXIDE, EPICHLOROHYDRIN, CRYSTALLINE SILICA.

Styrene, in the presence of air and high temperature or prolonged exposure of styrene/air mixture to sunlight, can react to form styrene oxide.

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. EPICHLOROHYDRIN

## SECTION 16. OTHER INFORMATION

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

**Other Precautions for Use:** This product must be mixed with Metal-2-Metal Reactor prior to use. Please refer to the Material Safety Data Sheet (#100611) for catalyst before using. If product is to be sanded, the OSHA PEL/TLV of 10 mg/m<sup>3</sup> for nuisance dust should be observed.

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.