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## MATERIAL SAFETY DATA SHEET

### PRODUCT IDENTIFICATION

<b>Trade Name and Synonyms</b>	Kemlite®, Glasbord®, Fire-X Glasbord®, Kemlite Matrex®, Kemlite ArmorTuf®, Kemlite ETR®, Gatorplate®, Filon®, and Tufline®
<b>Chemical Name and Synonyms</b>	Fiberglass Reinforced Plastic (frp)
<b>Chemical Family</b>	Polymerized Thermoset Polyesters
<b>DOT Hazard Classification</b>	Not Applicable

### COMPOSITION/INFORMATION ON INGREDIENTS

Panels are solid sheets composed of a mixture of polyester resin, inorganic fillers, pigments, processing additives, and fiberglass reinforcement. During the manufacturing process, this mixture is cured or hardened into a stable, solid material that is non-hazardous when handled or processed in accordance with good manufacturing and industrial hygiene practices.

### HAZARDS IDENTIFICATION

<b>Threshold Limit Value (TLV)</b>	Fabricating, cutting, drilling, etc. of frp may produce dust, which should be controlled. Particulate level should not exceed the following OSHA standard: TWA 15 mg/m <sup>3</sup> (Total Dust) and TWA 5 mg/m <sup>3</sup> (Respirable Particulate).
<b>Primary Route of Entry</b>	Inhalation of or skin contact with dust.
<b>Effects of Overexposure</b>	Exposure to dust in excess of TLV may result in skin or upper respiratory tract irritation. Pre-existing skin or respiratory disorders may cause more susceptibility to these effects.

### PHYSICAL DATA

<b>Boiling Point</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity (water=1)</b>	1.2-1.8
<b>% Volatile (by volume)</b>	Not applicable
<b>Solubility in Water</b>	Insoluble
<b>Appearance and Odor</b>	Rigid sheet, no significant odor

### FIRST AID MEASURES

<b>Inhalation of Dust</b>	Remove from source of exposure into fresh air. Ensure clear airway. Get medical help.
<b>Prolonged Skin Contact</b>	Remove contaminated clothing. Wash skin with warm water and soap. Skin cream could be helpful.
<b>Eye Contact</b>	Flush with running water for 15 minutes or more.
<b>Ingestion of Dust</b>	Do not induce vomiting. Get medical help.

### FIRE AND EXPLOSION DATA

<b>Flash Point</b>	Material is classified as nonflammable.
<b>Ignition Temperature</b>	Typically 650°F or higher for frp panels.
<b>Extinguishing Media</b>	Water, CO <sub>2</sub> , dry chemical.
<b>Fire Fighting Procedures</b>	Use media best suited to fire environment. Use water to cool fire-exposed containers and to flush spills from ignition sources. Use self-contained breathing apparatus for large scale fires.

**Unusual Fire or Explosion Hazards**

With other building materials, combustion will yield toxic materials such as carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>), and may also yield aliphatic and aromatic hydrocarbons and halogenated compounds. Fabricating, cutting, drilling, etc., may produce a class ST-1 dust. Safety precautions and ventilation requirements recommended by NFPA-68 should be followed.

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**REACTIVITY DATA**

**Stability and Incompatibility**

Stable under normal use conditions. Hazardous polymerization will not occur. Avoid contact with alkali, strong mineral acid or other oxidizers.

**Hazardous Decomposition Products**

See information in Fire and Explosion Data above.

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**ENVIRONMENTAL INFORMATION**

**Handling and Storing Precautions**

Store away from heat, open flame, other ignition sources and incompatible materials (see above).

**Miscellaneous**

Do not eat or drink in fabrication areas.

**Spill or Leak Procedures**

Not applicable.

**Waste Disposal**

Dispose of as solid waste in compliance with all applicable local, state, and federal regulations.

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**PERSONAL PROTECTION INFORMATION**

**Respiratory Protection**

Use adequate ventilation to control dust when machining, cutting, drilling, etc. Cover nose and mouth with mask approved by NIOSH/OSHA.

**Eye Protection**

Use goggles or safety glasses when machining, cutting, drilling, etc. Have eye washes available.

**Skin Protection**

Wear protective gloves, long pants and long sleeves when machining, cutting, drilling, etc. Wash skin with soap and water after handling. Wash dusty work clothes separately.

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*Robert A. Gandy*

APPROVED BY

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