

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Trade Name and Synonyms	Optimax HPL®
Chemical Name and Synonyms	Fiberglass Reinforced Plastic (frp)
Chemical Family	Polymerized Thermoset Polyesters/High Pressure Laminate (HPL)
DOT Hazard Classification	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.

In a secondary process a decorative HPL (High Pressure Laminate) sheet is adhered to the surface of the frp panel to obtain the final product.

HAZARDS IDENTIFICATION

Threshold Limit Value (TLV)	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 ³ (Total Dust) and TWA 5 mg/m ³ (Respirable Particulate).
Primary Route of Entry	Inhalation of or skin contact with dust.
Effects of Overexposure	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

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

FIRST AID MEASURES

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

FIRE AND EXPLOSION DATA

Flash Point	Material is classified as nonflammable.
Ignition Temperature	Typically 650°F or higher for frp panels.
Extinguishing Media	Water, CO ₂ , dry chemical.
Fire Fighting Procedures	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 (CO²), 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.

REACTIVITY DATA

Stability and Incompatibility

Avoid

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

**Hazardous Decomposition
Products**

See information in Fire and Explosion Data above.

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.

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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