

SAFETY DATA SHEET

Revision Date: May 5, 2025

FRP GRATES

1. PRODUCT IDENTIFICATION

Material Name: FRP GRATES sourced by Stoneland.

Recommend Use: Exterior pavers, walkways, platforms, trench covers

Retailer: STONELAND / 11831 Vose St., North Hollywood, CA 91605 / 818-764-9777

Emergency Contact Information: 911 OR 818-754-8300 or CAL/OSHA - 818-901-5754

2. HAZARD IDENTIFICATION

This product is composed of fiberglass-reinforced plastic (FRP/GRP), made primarily from glass fibers, thermoset resin, and mineral fillers, which are cured and stable in solid form. The final products, which are molded into exterior pavers, covers, and grating, are odorless, stable, nonflammable, and present no known health risks in their unaltered state. However, when subjected to cutting, grinding, sanding, or demolition, they can release airborne dust containing fiberglass particles, epoxy resin fragments, and trace crystalline silica, which may cause respiratory irritation, allergic skin reactions, and long-term health risks such as silicosis or cancer with repeated exposure.

GHS (Global Harmonized System) Classification:

Global Harmonization Identification System (GHIS)

GHIS: Health: 3 Fire: 1 Reactivity: 1

Carcinogenicity Category 1B (H350)

Skin Sensitization Category 1 (H317)

Specific Target Organ toxicity, single exposure; Respiratory tract irritation-
Category 3 (H335)

Specific target organ toxicity- repeated exposure- Category 1A (H372)

GHS Pictogram:



Category 3 (Respiratory Tract Irritation) (H335)

Fiberglass / Epoxy Dust / Crystalline Silica



Category 1A (Carcinogenicity) (H372)

Signal Word: DANGER

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Hazard Statements:

(H350) May cause CANCER (Inhalation)

(H335) May cause Respiratory Irritation

(H372) Causes damage to organs (Lung/respiratory) through repeated or prolonged exposure

Precautionary Statements:

Do not handle until all safety precautions have been read and understood (P202)

Do not breathe dust or fumes generated during cutting, grinding, or sanding (P260)

When cutting, use water and/or exhaust ventilation to minimize exposure.

Wear respiratory protection (If ventilation is inadequate) (P284)

Wear protective gloves and clothing to avoid skin contact with dust or resin particles (P280)

Do not eat, drink, or smoke when using this product (P270)

Wash skin thoroughly after handling (P264)

Potential Health Effects:

Inhalation: Do not breathe dust. See Health Hazards in Section 11 for more information.

3. COMPOSTION OF INGREDIENTS

Chemical Name	CAS# (Chemical Abstracts Service)	% by Weight (approximate)
Glass, oxide, chemicals (fiberglass)	65997-17-3	35
Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped	25036-25-3	33
Aluminum Hydroxide	21645-51-2	32
<i>Note: Crystalline silica is not intentionally added to this product but may be present in trace quantities or generated as respirable dust during cutting or sanding.</i>		

4. FIRST AID MEASURES

Eyes: (Dusts) Immediately flush the affected area with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: ash thoroughly with soap and water after working with FRP/GRP products. If skin irritation or rash occurs, seek medical attention.

***Inhalation:** Remove to fresh air if exposed to dusts or fumes generated during cutting, grinding,

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or sanding. Administer artificial respiration if breathing has stopped. Seek medical attention immediately.

Ingestion: Not applicable for solid, intact products.

* Always employ methods to minimize dust generation during cutting, such as wet cutting or grinding, and exhaust ventilation. Utilize respiratory protection when necessary.

* Always have emergency eyewash available in area where products are cut or ground.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable

Auto Ignition Temperature: Not applicable

Flammable Limits LEL & UEL: Not applicable

-LEL (*Lower Explosive Limit*)

-UEL (*Upper Explosive Limit*)

Fire Extinguishing Media: Use extinguishing media appropriate for surrounding materials. FRP/GRP is not flammable in solid form, but resin components may produce smoke if exposed to fire.

Fire and Explosion Hazards: Cutting or grinding may generate combustible dust in confined spaces. Decomposition in fire may release carbon monoxide, carbon dioxide, and irritating fumes.

Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.

6. ACCIDENTAL RELEASE

Avoid creating excessive amounts of dusts. Clean up dusts with wet mop methods or use an approved HEPA vacuum system.

7. HANDLING, FABRICATION AND STORAGE

When cutting, grinding, or sanding FRP/GRP grating, use wet methods and/or local exhaust ventilation to minimize dust. Avoid breathing dust or fumes. Wear protective gloves and clothing to prevent skin contact with fiberglass particles and resin dust. Respiratory protection may be required if ventilation is inadequate. Store FRP/GRP grating in a cool, dry, and well-ventilated area. Keep away from open flames, sparks, or high heat sources, as decomposition of resin components may release irritating fumes. Do not store near strong acids or oxidizers.

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8. EXPOSURE CONTROL PERSONAL PROTECTION

Component	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (American Conference of Governmental Industrial Hygienists Threshold Limit Value)
Fiberglass (glass, oxide, chemicals)	(T) 15mg/m ³	1 fiber/cc (respirable fibers, length > 5 µm)
	(R) 5mg/m ³	
Epoxy Resin Dust	Not established (treat as nuisance dust (T) 15mg/m ³ , (R) 5mg/m ³	Not established
Aluminum Hydroxide	(T) 15mg/m ³	2 mg/m ³ (as Al)
Crystalline Silica SiO ₂	(R) 0.05mg/m ³	(R) 0.025mg/m ³
	(R) 0.01mg/m ³ (Cal Osha)	
*Note: Respirable crystalline silica is not intentionally added but may be present in trace amounts or generated during cutting, grinding, or sanding. Exposure to this fraction is regulated due to potential risks such as silicosis and cancer.		

(T)= Total Dusts

(R)= Respirable Dusts

Engineering Controls: Use adequate ventilation, use integral dust collection and/or exhaust ventilation, avoid inhalation of dusts.

Skin: Wear protective gloves and clothing to avoid fiberglass or resin contact.

Eye: Wear approved Safety Goggles, or Safety Glasses and Face Shield when cutting, sanding, or grinding.

Respiratory: Wear a NIOSH-approved respirator (such as N95, R95, or P100 filters) if ventilation is inadequate or if cutting, grinding, or sanding generates airborne dust. Higher levels of exposure may require a full-face respirator or powered air-purifying respirator (PAPR).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, color may vary
Odor:	Odorless
Melting Point:	N/A
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A

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Solubility in Water: N/A
Relative Density/Specific Gravity ($H_2O = 1$): 1.8 - 1.9
Percent Volatile by Volume: N/A
Evaporation Rate: N/A
Viscosity: N/A

10. STABILITY AND REACTIVITY

Reactivity: Stable in current form
Stability: Stable under normal use and storage conditions.
Conditions to Avoid: Avoid open flames, sparks, and excessive heat.
Incompatibility: Strong acids and strong oxidizers.
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and irritating fumes may be released when heated or burned.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Routes of Exposure

No health risk associated with intact FRP/GRP products. However, inhalation, eye, or skin contact may occur when cutting, sanding, or grinding, generating dust and resin fragments.

Acute Health Effects

- Inhalation: Fiberglass and resin dust may cause temporary irritation of the nose, throat, and lungs. High exposures may lead to coughing and shortness of breath.
- Skin Contact: Fiberglass particles may cause mechanical irritation, itching, or rashes. Epoxy resin dust may cause allergic skin reactions in sensitized individuals.
- Eye Contact: Dust may cause redness, itching, or irritation.
- Ingestion: Not expected under normal use; may cause mild gastrointestinal irritation if swallowed in large amounts.

Chronic Effects

- Prolonged inhalation of respirable dust may cause chronic respiratory irritation or reduced lung function.
- Fiberglass dust is classified as a possible human carcinogen by IARC (Group 2B).
- Epoxy resins may cause long-term allergic skin reactions in sensitized individuals.
- Trace crystalline silica, if present from fillers or cutting, is classified as a human carcinogen (IARC Group 1).

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Potential Adverse Interactions

Individuals with pre-existing respiratory conditions (such as asthma or chronic bronchitis) may experience aggravated symptoms when exposed to fiberglass or resin dust.

Carcinogen Status

- IARC: Fiberglass (Group 2B – possible human carcinogen); Crystalline silica (Group 1 – carcinogenic to humans).
- NTP: Respirable crystalline silica listed as “Known Human Carcinogen.”
- OSHA: Respirable crystalline silica regulated as a carcinogen
- Epoxy Resin: Not classified as carcinogenic but may contribute to sensitization.

California Proposition 65 Warning: C This product may contain trace crystalline silica, a substance known in the state of California to be a human Carcinogen.

Overview of Animal Testing

Fiberglass inhalation studies show chronic respiratory irritation in animals. Epoxy resin studies show potential skin sensitization. Crystalline silica studies confirm lung fibrosis and carcinogenicity in rats and mice.

12. ECOLOGICAL INFORMATION

No ecological data available. Product is stable in solid form and not expected to pose environmental hazards under normal use. one available at this time.

13. DISPOSAL CONSIDERATIONS

Dispose all waste in accordance with federal, state, and local regulations. FRP products are considered non-hazardous solid waste. Do not discharge into waterways or sewers.

14. TRANSPORT INFORMATION

D.O.T Shipping Name:	Not Applicable
Hazard Class:	Non Regulated
ID Number:	Not Applicable
Marking:	Not Applicable
Labels:	None
Placard:	None
Hazardous Substance/RQ:	Not Applicable
Shipping Description:	Fiberglass Reinforced Plastic (FRP) Products

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15. REGULATORY INFORMATION

This product and/or its components have been previously introduced into U.S. commerce and are listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce. Hence, it is subject to all applicable provisions and restrictions under TSCA 40 CFR Section 721.

This FRP product contains glass fibers, thermoset resin, and mineral fillers. Trace crystalline silica may be present as a by-product of cutting or sanding.

California Proposition 65 Warning: This product may contain crystalline silica, a chemical known to the State of California to cause cancer.

This product meets the hazard definition(s) as defined by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR Section 1910.1200): Health Hazard (Sections 2 & 11).

Independent testing has confirmed that this product complies with international restricted substance requirements. The product is verified to be free from asbestos, PCBs, PBBs, PBDEs, ozone-depleting substances, and regulated heavy metals above allowable limits.

This data sheet provides details on the potential hazards associated with dust generated during cutting, sanding, installation, or demolition of the product.

16. ADDITIONAL INFORMATION

Global Harmonization Identification System (GHIS)

GHIS: Health: 3 Fire: 1 Reactivity: 1

Hazardous Material Identification System (HMIS)

HMIS: Health: 2 Fire: 1 Reactivity: 1

National Fire Protection Association (NFPA)

NFPA: Health: 2 Fire: 1 Reactivity: 1

DISCLAIMER: The foregoing Safety Data Sheet serves as a general reference for fiberglass-reinforced plastic (FRP/GRP) products, intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. It is important to recognize that FRP formulations may vary depending on resin systems, fiberglass content, and fillers.