

**SAFETY DATA SHEET**  
**Molded Fiber Glass Companies**  
**FRP Composite Products**

Revision Date:5/19/15  
Print Date: 5/19/15  
Version 1.1

**1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.**

Molded Fiber Glass Companies  
2925 MFG Place  
Ashtabula, OH 44005

Emergency Telephone Number 1-800-424-9300  
Regulatory Information Number 1-440-994-5207

Product Name: Fiber Reinforced Plastic/Composite Product

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance: Solid

**WARNING: GRINDING, DRILLING, SANDING, CUTTING OR OTHER MECHANICAL WORKING OF THIS PRODUCT MAY GENERATE DUSTS THAT COULD FORM COMBUSTIBLE (EXPLOSIVE) DUST-AIR MIXTURES.**

Hazard classification: If combustible dust is generated during processing of this product, the dust may be classified as a “flammable solid” and “explosive”.

Note: The OSHA revision of the Hazard Communications Rule on March 29, 2012, removed the exemption for articles subject to downstream processing that may produce sufficient quantities of combustible dust to create a hazard. If you do not process this product in a manner that generates dust in a sufficient quantity to produce a combustible dust hazard, or a nuisance dust exposure hazard in your workplace then this SDS may not apply to you.

**Potential Health Effects**

**Exposure Routes**

Nuisance Dust inhalation, Skin contact, Eye contact, Ingestion

**Eye Contact**

Nuisance dust can cause eye irritation from eye contact.

**Skin Contact**

Nuisance dust can cause skin irritation. Symptoms may include redness, minor rash.

**Ingestion**

Swallowing small amounts of nuisance dust during drilling, cutting, grinding or machining is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**SAFETY DATA SHEET**  
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**Inhalation**

Breathing small amounts of nuisance dust generated during normal drilling, cutting grinding or other mechanical processing of this product is not likely to cause harmful effects. Breathing large amounts of nuisance dust may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8).

**Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by significant and prolonged exposure to nuisance dust: respiratory tract, eyes, and skin (for example, asthma-like conditions or skin conditions).

**Symptoms**

Signs of overexposure to dust through breathing or swallowing may include: irritation of nose, throat, and airways, persistent coughing or shortness of breath.

**Target Organs**

Nose, throat, and respiratory tract.

**Carcinogenicity**

No data available

**Reproductive Hazard**

No data available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Drilling, cutting machining, grinding or sanding this product may produce a combustible nuisance dust.

**4. FIRST AID MEASURES**

**Eyes**

If dust particles get into eyes, immediately flush eyes gently with water for at least 15 minutes. Seek medical attention if symptoms persist.

**Skin**

If irritation develops, flush area with plenty of cool or warm water. If a rash develops and symptoms persist seek medical attention. Barrier creams may help to prevent irritation. Good hygiene practices, such as washing or bathing with soap and warm (not hot) water and laundering clothing following exposure, will help prevent irritation and rashes.

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**Ingestion**

If the individual ingests large amounts of dust, and is drowsy or unconscious, do not give anything by mouth. Do not induce vomiting unless directed to do so by a physician or poison control center.

**Inhalation**

If overexposure symptoms develop, move individual to fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet and seek medical attention.

**5. FIREFIGHTING MEASURES**

**Suitable Extinguishing Media**

Dry chemical, Foam, Water spray, Carbon Dioxide (CO<sub>2</sub>)

**Hazardous Combustion Products**

May form carbon dioxide, carbon monoxide, toxic fumes, and various hydrocarbons.

**Precautions for Fire Fighting**

During a fire, irritating toxic smoke may be generated. Wear full firefighting turnout gear (bunker gear), and respiratory protection (SCBA). Cool containers with water if exposed to fire.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Since this material is not a liquid, spills should not be a concern. See section 13 for proper disposal considerations. If dust is generated during processing of the product, do not allow dust deposits to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersion of dust into the air (i.e., cleaning surfaces with compressed air). Non-sparking tools should be used for cleaning dust. Refer to NFPA 654 for additional information.

**Environmental Precautions**

See section 13 for proper disposal considerations.

**7. HANDLING AND STORAGE**

**Safe Handling and Storage**

If dust is generated by processing the product, minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure dusts do not accumulate on surfaces. Dry dusts can build up static electric charges when transferring. Provide adequate grounding and bonding of dust

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collection and transfer equipment. Refer to NFPA 654 for additional guidance on safe handling of combustible dusts.

<b>EXPOSURE CONTROL AND PERSONAL PROTECTION</b>
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**Exposure Guidelines**

Nuisance Dust		
ACGIH TLV	Total Dust (8 hour TWA)	10 mg/m <sup>3</sup>
OSHA PEL	Total Dust (8 hour TWA)	15 mg/m <sup>3</sup>
OSHA PEL	Respirable Dust (8 hour TWA)	5 mg/m <sup>3</sup>

**General Advice**

These recommendations provide general guidance when grinding, drilling, cutting or sanding this product. Personal protective equipment should be selected for individual applications and should consider factors that affect exposure potential, such as handling practices and ventilation. It is the responsibility of the employer to follow regulatory guidelines established by federal, state and local authorities.

**Exposure Controls**

Provide sufficient ventilation (general or local exhaust) to maintain exposure levels below the TLV(s).

**Eye Protection**

OSHA approved safety glasses with side shields, or chemical goggles are recommended. Consult your safety representative.

**Skin and Body Protection**

Wear protective gloves (consult your safety equipment supplier). Wear normal work clothing to cover arms and legs.

**Respiratory Protection**

If workplace exposure limit(s) are exceeded (see exposure guidelines), a NIOSH approved respirator is advised, in the absence of proper environmental control. For dust exposure, an N95 respirator may be approved under certain conditions. OSHA requires that a hazard analysis and appropriate respirator selection must be performed by the employer based on the specific workplace exposures. Consult a qualified industrial hygienist for additional details. OSHA requires consideration of engineering or administrative controls when Permissible Exposure Limits (PELs) are exceeded.

**Dust Control Equipment**

NFPA recommends dust control transport systems (dust collector separators) involved in handling combustible dust be equipped with explosion relief vents or explosion suppression systems. NFPA also recommends that dust collectors be located outdoors. An isolation or suppression device is generally required in the dust collector inlet duct to prevent an explosion from entering the work area. Ensure that dust handling equipment (such as exhaust ducts, dust collectors, vessels, and processing equipment are designed in such a manner as to prevent escape of dust into the work area (no leakage).Use

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appropriately classified electrical equipment for dust cleaning and collection. See NFPA 654 for information regarding combustible dust safeguards.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Solid
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Minimum Explosion Concentration	Dust explosivity is dependent on the specific dust type, particle size and other considerations. Various composite dust test results indicated an MEC range of 80 to 250 g/m <sup>3</sup> . Kst values ranged from 60 to 185 bar m/s.
Vapor Pressure	NA
Density	NA
Water Solubility	Insoluble

**10. STABILITY AND REACTIVITY**

**Stability**

No data available

**Conditions to Avoid**

Avoid heat and flame with combustible dust.

**Incompatible Products**

No data available

**Hazardous Decomposition Products**

May form carbon dioxide and carbon monoxide, toxic fumes, various hydrocarbons when burned.

**Hazardous Reactions**

NA

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity**

Acute Oral Toxicity – Product: no data available

**Acute Inhalation Toxicity**

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Acute inhalation toxicity – Product: no data available

**Acute Dermal Toxicity**

Acute Dermal Toxicity – Product: no data available

**Acute Toxicity (other routes of administration)**

Acute toxicity (other routes of administration): no data available

**12 ECOLOGICAL INFORMATION**

**Biodegradability**

Biodegradability – Product: no data available

Bioaccumulation – Product: no data available

**Ecotoxicity Effects**

Toxicity to fish – Product: no data available

**Toxicity to Daphnia and Other Aquatic invertebrates**

Toxicity to daphnia and  
Other aquatic invertebrates - Product: no data available

**Toxicity to Algae**

Toxicity to algae – Product: no data available

Toxicity to bacteria – product: no data available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods**

Dispose of processing waste dust in accordance with local, state and federal regulations. For guidance contact your state or local solid waste management authority.

**14. TRANSPORTATION INFORMATION**

**Shipping Information**

Not DOT regulated.

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**15. REGULATORY INFORMATION**

**SARA Hazard Classification**

**SARA 311/312 Classification**

NA

**SARA 313 Components**

NA

**Notification Status**

NA

**16. OTHER INFORMATION**

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling when drilling, cutting, grinding or sanding this product.

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating from the company or not. Recipients are advised to confirm that the information is correct, applicable, and suitable to their circumstances. This SDS has been prepared by Molded Fiber Glass Companies Health Safety and Environmental Department (1-440-994-5207).