

SAFETY DATA SHEET
Molded Fiber Glass Companies
FRP Composite Products

Revision Date:5/10/17
Print Date: 5/10/17
Version 1.2

**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.

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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 (CO₂)

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.

EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Guidelines

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

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 ³ . 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

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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

California Prop 65:

WARNING! This product contains a chemical, styrene, known to the State of California to cause cancer.

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).