

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT INFORMATION

PRODUCT NAME AND SYNONYMS:

Glass cloth or filament - Epoxy Composite (Sheets, Molded Shapes, Tubes or Laminated Products)

CAS NO. AND NAME: This material is a manufactured, non-hazardous product.

CHEMICAL FORMULA: Polymer

MANUFACTURER'S NAME AND ADDRESS:

THE GUND COMPANY, INC.  
2121 WALTON ROAD  
SAINT LOUIS, MISSOURI 63114  
TEL 314 423 5200  
FAX 314 423 9009

EMERGENCY TELEPHONE: Chemtrec (800) 424-9300

### SECTION II - HAZARDOUS COMPONENTS

COMPONENT (CAS Registry No.)	WT. %	ACGIH TLV	OSHA PEL
Aluminum Trihydrate CAS # 21645-51-2	0 - 33%	10 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Dust
*Fibrous Glass Dust CAS # (None)		10 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Dust
*Nuisance Dust		10 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust

\*Fibrous glass dust and nuisance dust may be generated if large quantities of composite are cut or machined.

### SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Solid, glass fabric-based material. No discernible odor.

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MOLECULAR WEIGHT: Not Applicable

SPECIFIC GRAVITY: Solid

SOLUBILITY IN WATER: None

pH: Not Applicable

#### **SECTION IV - FIRE AND EXPLOSION DATA**

FLASH POINT (DEGREES F< PENSKEY MARTINS CLOSED CUP): None

FIRE EXTINGUISHING MEDIA: Foam, Dry Chemical, Carbon Dioxide, Water spray as suitable for surrounding materials

FLAMMABLE LIMITS: LOWER: None UPPER: None

SPECIAL FIRE FIGHTING PROCEDURES: Use protective gear with self-contained breathing apparatus

UNUSUAL FIRE AND EXPLOSION HAZARDS: High dust concentrations from dry fabrication may be explosive if mixed with air and in the presence of an ignition source.

HAZARDOUS COMBUSTION PRODUCTS: CO<sub>2</sub>, CO, HCN, similar to wood products.

#### **SECTION V - REACTIVITY DATA**

STABILITY: Stable

CONDITIONS TO AVOID: Stable at normal storage conditions. Avoid heating above 450°F.

INCOMPATIBILITY: Oxidizers, strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO, HCN, similar to wood products.

HAZARDOUS POLYMERIZATION: Will not occur.

#### **SECTION VI - HEALTH HAZARD INFORMATION**

EXPOSURE FROM ROUTINE USE: Dust can cause irritation to the eyes, nose, throat, lungs, and skin.

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EFFECTS OF OVEREXPOSURE: Prolonged exposure to dust may cause irritation in eyes, nose, throat and/or mouth.

PROBABLE ROUTES OF EXPOSURE: Skin, eyes, inhalation.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: For dust, rinse immediately with water. Remove contact lenses, then flush with large quantities of water for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Routine skin contact with composite or composite dust is unlikely to cause any hazard.

INHALATION: For dust, remove to fresh air. Seek medical attention if necessary.

INGESTION: Ingestion of composite or composite dust is unlikely to occur in industrial or commercial use.

## **SECTION VII - TOXICITY DATA**

ORAL: No tests have been performed.

DERMAL: No tests have been performed.

INHALATION: No tests have been performed.

EYE: No tests have been performed.

CARCINOGENICITY: Glass cloth or filament - epoxy composite has not been evaluated for carcinogenicity.

## **SECTION VIII - SPECIAL PROTECTION INFORMATION**

WORK and HYGIENE PRACTICES: Avoid getting dust in your eyes. Avoid blowing dust with compressed air. Avoid prolonged or repeated breathing of dust. Avoid open flame and contact with oxidizing agents. Use proper personal protection (see below).

STORAGE and HANDLING PRACTICES: No special handling requirements. Where dust is stored for disposal, keep in a cool area away from heat, ignition sources, and oxidizing agents.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Keep open ignition sources out of areas where dust is generated.

VENTILATION and ENGINEERING CONTROLS: Provide adequate general and local exhaust ventilation to maintain airborne concentrations below the exposure limits and to maintain healthful working conditions. To avoid static sparks, electrically ground and bond all equipment used in and around

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processes that involve dust generation. Enclose processes, where possible, to prevent/minimize dust dispersion into work areas.

RESPIRATORY PROTECTION: Where significant exposures to nuisance dust are possible, respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented. If concentrations are below the TLV and/or PEL, a NIOSH approved disposable dust/mist respirator may be used for personal comfort. For concentrations above the TLV and/or PEL, but less than 10 times these limits, a NIOSH approved half-facepiece respirator equipped with dust/mist cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in Publication No. 87-1-16 or ANSI Z88.2-1992. Note: ANSI Z88.2-1992 requires the use of a HEPA filter if the particle size distribution of the contaminant is unknown. *Warning! Air-purifying respirators do not protect workers in oxygen deficient atmospheres.*

EYE PROTECTION: Wear safety glasses or goggles if flying dust may blow into the eyes. Ensure compliance with OSHA's personal protective equipment standard (29 CFR 1910.133) for eye and face protection.

HAND and BODY PROTECTION: None Needed.

## **SECTION IX - SPILL, LEAK, AND DISPOSAL PROCEDURES**

IN CASE MATERIAL IS SPILLED OR RELEASED: None - Solid Non-hazardous Material

## **SECTION X - REGULATORY INFORMATION**

FDA: N/A

USDA: N/A

CPSC: N/A

TSCA: N/A

DOT: N/A

EPA: N/A

**The Gund Company, Inc.**  
**Saint Louis, Missouri U.S.A.**  
EFFECTIVE DATE: July 23, 2001

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SUPERSEDES: June 11, 2001

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