



SUPERIOR OIL COMPANY, INC.
 Solvents and Chemicals Division
 Fiberglass and Resins Division

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MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION

Fiber Glass Reinforcements
 Chopped Strands
 Chopped Strand Mats
 Continuous Strand Rovings
 Woven Roving

Chemical Name: Mixture
 CAS No: None Assigned
 Common Name: Fiber Glass
 Textile Fiber Glass
 Continuous Filament Glass Fibers
 Product Use: Reinforcements for various resin systems

COMPANY INFORMATION

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2. COMPOSITION INFORMATION ON INGREDIENTS

COMPONENT 1

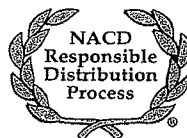
Chemical Name: Glass Fibers, E-Glass
 CAS No: None Assigned
 Common Name: Textile Fiber Glass; Continuous Filament Glass Fibers
 Percent in Product: Approx. 98% by weight (Except: Chopped Strand Mats: Approx. 92%)
 Exposure Limits: OSHA PEL ACGIH TLV TWA
 Total Nuisance Dust: Synthetic Vitreous
 15mg/m³ Fibers: (continuous filament glass fibers)
 Respirable Nuisance Dust: 10mg/m³
 5mg/m³

COMPONENT 2

Chemical Name: Organic Polymer Solids (Cured)
 CAS No: None Assigned
 Common Name: Size Materials – cured
 Percent in Product: Approximately 2% by weight
 Exposure Limits: OSHA PEL ACGIH TLV TWA
 None None

COMPONENT 3

Chemical Name: For Chopped Strand Mat. Binder contains: Anhydrous Silica
 CAS No.: 7631-86-9
 Common Name: Solid Unsaturated Polyester Resin
 Percent in Product: Type: EMC-up to 5.5%
 Exposure Limits: OSHA PEL ACGIH TLV TWA
 None None



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3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Degree of Hazard</u>
NFPA Rating	0	0	0	0 – Minimal (Insignificant)
HMIS Rating	1	0	0	1 - Slight
				2 – Moderate
				3 – Serious (High)
				4 – Severe (Extreme)
				5 – Chronic Health Effect(s)

POTENTIAL HEALTH EFFECTS

Primary Routes of Entry:	Inhalation, skin and eye contact
Acute Inhalation:	Temporary upper respiratory irritation
Chronic Inhalation:	None known
Acute Skin Contact and Sensitization:	Temporary skin irritation seen in certain individuals
Chronic Skin Contact:	None known
Acute Eye Contact:	Temporary eye irritation
Chronic Eye Contact:	None known
Acute Ingestion:	Unlikely – Contact physician
Chronic Ingestion:	None known
Medical Conditions Which May Be Aggravated:	Pre-existing conditions which may be aggravated by mechanical irritants upon inhalation or skin contact.

CARCINOGENICITY

Ingredient: Textile or Continuous Fibrous Glass

NTP: Not Listed

IARC: Not Classifiable – Group 3

OSHA: Not Listed

Mutagenicity: None

Teratogenicity: None

Reproductive Toxicity: None

4. FIRST AID MEASURES

Inhalation: Remove from exposure. Get medical help if irritation persists.

Eye Contact: Flush well with running water for at least 15 minutes. Get medical help if irritation persists.

Skin Contact: Cleanse *gently* with soap and water. Get medical help if irritation persists.

Ingestion: Unlikely, consult physician if ingestion occurs.

Information for Medical Practitioners: Skin irritation responds well to mild hydrocortisone.

5. FIRE FIGHTING MEASURES

Flash Point/Flammable Limits/Extinguishing Media: Non-burning

Unusual Fire: Not Applicable

Fire Fighting Procedures: In any sustained fire, wear self-contained breathing apparatus (SCBA).

Special Exposure Hazards from Fire: Hazardous decomposition products of combustion from sizing and binders may be released in a sustained fire. The larger part of the product is nonflammable E-glass. In a sustained fire, sizing and binders may decompose, releasing combustion products including carbon dioxide, carbon monoxide and water.

Additionally, there are many chemicals that can evolve during any partial decomposition of chemical products. The amounts or identities cannot be predicted and can differ in each situation.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken upon Release or Spill: Use vacuuming (preferably wet sweeping methods) to clean area.

Waste Disposal Method: Dispose in accordance with government regulations. Keep debris minimal by locating waste disposal equipment near work areas.

7. HANDLING AND STORAGE

Precautions: Keep airborne dust concentrations below regulated levels. For optimum performance, store at 25°C or less and relative humidity less than 65%. Not an electrical conductor. Can accumulate static charge.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Protection: Some applications of these products may not require respiratory protection for fiber glass. However, if airborne fibrous glass concentrations exceed regulatory limits, respiratory protection approved for nuisance dusts is recommended.

Ventilation: Local exhaust ventilation (if needed) to maintain appropriate airborne dust levels.

Skin/Eye Protection: Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls, or long sleeved loose fitting clothing will maximize comfort. Vacuum equipment may be used to remove fibers from clothes. Work clothing should be laundered separately from other clothing before reuse. Wear appropriate eye protection which may be safety glasses/side shields if there is a chance of airborne glass fibers contacting eyes.

Exposure Limits: The American Conference of Governmental Hygienists (ACGIH) has adopted a Threshold Limit Value (TLV) of 10 mg/m³ for an 8 hour time weighted average (TWA) exposure for fibrous glass dust. The Occupational Safety and Health Administration (OSHA) does not prescribe a Permissible Exposure Limit (PEL) for fibrous glass but relies on the PEL-TWA's for nuisance dust of 15 mg/m³ (total) and 5 mg/m³ (respirable).

Product Package Label:**CAUTION:**

Skin Irritation: Fiber glass may cause temporary skin irritation. Wear long sleeves, gloves and eye protection when handling and applying material. Cleanse skin with soap and warm water after handling. Wash work clothes separately and rinse washer.

Dust Irritation: A disposable mask designed for nuisance type dusts must be worn when handling and applying material in order to prevent irritation to the nose or throat due to dust and airborne particles.

Work Practices and Engineering Controls: Avoid spread of fiber glass dust. For some fabrication operations where dust is generated, provide general and/or local exhaust ventilation to control airborne dust levels below exposure limits.

Other: When glass fiber is used as reinforcement in plastic material, caution must also be exercised with the resin and curing catalysts employed and the mixing processes used to disperse the fiber in the resin. When the glass fiber reinforced material is abraded or machined, control of the released dust must be established.

Additional respiratory protection may be necessary for protection from vapors and mists emitted from these resins and catalysts.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Boiling Point: (°F): >1600°F

Melting Point: (°F): >1600°F

Softening Point: (°F): >Approx. 1550°F

Freezing Point: None

Odor: None

Odor Threshold: None

Color: White

Appearance: Fibers assembled into

roving, mats, yarns, fabrics, chopped strands

Vapor Density (Air = 1): N/A

Specific Gravity (H₂O=1): Glass =2.6

Evaporative Rate (ethylether=1): N/A

Vapor Pressure: N/A

% Volatile by Volume (mmHg@20°C): Not volatile

% Solubility (in water): Small

pH: Neutral

10. REACTIVITY

Stability: Chemically Stable

Corrosivity: Not corrosive

Reactivity: Not reactive

Reactivity with water: Not reactive

Incompatible Substances: Hydrofluoric Acid

11. TOXICOLOGICAL INFORMATION

Extensive medical-scientific research has been conducted regarding the health aspects of fiber glass over the past 50 years. The International Agency for Research on Cancer (IARC), an agency of the World Health Organization (WHO) at a meeting in June 1987, reviewed all of the significant research on the health effects attributed to fiber glass.

IARC determined that the data from both human and animal studies was inadequate to classify continuous filament glass fibers such as used in Fiber Glass Reinforcement products, as carcinogenic to humans.

12. ECOLOGICAL INFORMATION

This product is not manufactured with, nor does it contain any Class I Ozone depleting chemicals as defined by EPA in Title VI of the Clean Air Act Amendments of 1990 40CFR Part 82, Protections of Stratospheric Ozone. This product is not classified as a hazardous air pollutant Title (I) Clean Air Act of 1990.

13. WASTE DISPOSAL CONSIDERATIONS

Scrap materials should be disposed of in a sanitary landfill in accordance with federal, state, and local regulations. Waste material is not considered hazardous as defined by RCRA (40 CFR Part 26).

14. TRANSPORTATION INFORMATION

National Motor Freight Classification (NMFC): 1714100, Rovings or yarn, glass fiber or strand, glass fiber in continuous lengths or chopped: in packages.

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