

# **GLASS MICROFIBER**

## **MATERIAL SAFETY DATA SHEET**

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### SECTION 1: PRODUCT IDENTIFICATION

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Product name:	Glass Microfiber
Generic name:	Fiber glass wool product
Manufacturer:	Lauscha Fiber International Corporation
Address:	105 Eastport Lane Summerville, SC 29483
Telephone:	(843) 871-3200
Fax:	(843) 871-8866
e-mail:	info@LFIfiber.com

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### SECTION 2: PRODUCT INGREDIENTS

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1. Borosilicate glass (B), composed of SiO<sub>2</sub>, Na<sub>2</sub>O, K<sub>2</sub>O, CaO, ZnO, BaO, MgO, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>
2. Borosilicate glass (C), composed of SiO<sub>2</sub>, Na<sub>2</sub>O, K<sub>2</sub>O, CaO, MgO, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>
3. Alkalisilicate glass (A), composed of SiO<sub>2</sub>, Na<sub>2</sub>O, K<sub>2</sub>O, CaO, ZnO, MgO, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>
4. Calcium-aluminoborosilicate glass (E), composed of SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>, CaO, MgO

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### SECTION 3: HAZARDS IDENTIFICATION

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Routes of Exposure:  
Inhalation & skin contact.

Effects of Over-exposure:

Inhalation:	May cause mild irritation to the upper respiratory tract.
Skin:	Fibers larger than 5 microns in diameter may cause mild irritation.
Eyes:	Irritation

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### SECTION 4: FIRST AID

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First Aid Emergency Procedures:

Inhalation:	Remove to fresh air. If irritation persists, obtain medical attention.
Skin:	Wash with soap and cool water. If irritation persists obtain medical attention.
Eyes:	Flush eyes with water for several minutes & obtain medical attention.

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### SECTION 5: FIRE & EXPLOSION

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Flash Point:	Nonflammable
Extinguishing Media:	No fire hazard
Fire Fighting Procedures:	Not applicable
Fire & Explosion Hazards:	Not applicable

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**SECTION 6: ACCIDENTAL RELEASE:**

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Spill & Leak Procedures: Not applicable

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**SECTION 7: HANDLING & STORAGE**

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Handling & Storage Precautions: For optimal uses keep in dry environment.

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**SECTION 8: PERSONAL PROTECTION INFORMATION**

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Where excessive inhalation and handling occur, requirements for personal protective equipment shall be used as indicated below:

Inhalation: Where the concentration of air-borne fibers exceed the permissible exposure limit (see below) local ventilation and respirators are recommended

ACGIH: 1 fiber/cc TWA for fibers longer than 5µm with a diameter less than 3µm;  
(Listed under "Synthetic vitreous fiber") (related to Glass Wool Fiber).

OSHA: 5 mg/m<sup>3</sup> TWA respirable fraction (OSHA)  
15 mg/m<sup>3</sup> TWA total dust (OSHA) (related to Glass Wool Fiber)

Skin: Should skin irritation exist, protective clothing should be worn to prevent contact.

Eyes: Eye protection should be worn when there is a likelihood of airborne fibers.

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**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

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Aesthetics

- Form: Loose wool, baled wool  
- Color: White  
- Odor: Odorless

Safety data

- Change of state: Softening point by approx. 700°C  
Transformation point by approx. 530°C  
- Flash point: Nonflammable  
- Ignition point: Not applicable  
- Spontaneous ignition: Not applicable  
- Fire promoting features: None  
- Explosion hazard: Not applicable  
- Steam pressure: Not applicable  
- Density (by 25°C): Glass approx. 2.50 g/cm<sup>3</sup>  
- Solubility: In water and solvent  
- pH-value by (100g/l H<sub>2</sub>O)  
according to DIN 54 275: 8 - 10  
- Distribution coefficient: Not applicable  
- Viscosity (25°C): Not applicable  
- Content of solvent: Not applicable

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**SECTION 10: STABILITY & REACTIVITY**

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Stability:	Material is stable. No hazardous reactions are expected.
Chemical Incompatibilities:	None have been determined.
Conditions to Avoid:	None in designed use.
Hazardous Decomposition Prod.:	None have been determined.
Hazardous Polymerization:	Material does not polymerize.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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Chronic Health Effects: The overwhelming body of scientific data has shown that the exposure to fibrous glass does not constitute a significant health hazard.

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**SECTION 12: ECOLOGICAL INFORMATION**

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Water hazard classification: 0

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Waste Disposal Method: Comply with local disposal regulations.

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**SECTION 14: TRANSPORT INFORMATION**

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According to transport regulation for roads (ADR), by rail (RID), by ship (IMDG) and air plane (ICAO / IATA):

- No hazardous material in the sense of transportation regulation
- No limitations
- Transport the products dry and protected against moisture

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**SECTION 15: REGULATORY INFORMATION**

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This product has not been classified a carcinogen by the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA), or the National Toxicology Program (NTP).

Glass wool (respirable size) has been classified by NTP as a suspect carcinogen. IARC has classified glass wool as possibly carcinogenic to humans, Group 2B. OSHA has not classified glass wool fibers.

This product and its components are listed on Toxic Substances Control Act Chemical Substance Inventory (TSCA).

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**SECTION 16: OTHER INFORMATION**

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For additional information contact Lauscha Fiber International Corporation.