



PYRO SHIELD, INC.

Insulation, Fabrication and Warehouse • FREE Local Delivery

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Pyro Shield Heat Barrier Solutions

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SILICA SDS

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SECTION 1: Product and Company Identification

Product Name or Number: Pyrosil 2000, Silica needled mats, high temperature silica insulation, high temperature silica tape; nominal fiber diameter: 9 microns

SECTION 2: Hazards Identification

NFPA: Health =1, Fire = 0, Reactivity = 0, Specific Hazard = 0

HMIS III: H1/FO/PH0

Route of Entry: The material may enter the body through inhalation of nuisance dust.

Target Organs: Respiratory system

Inhalation: Sore, raspy throat

Skin Contact: Redness, possible rash, and/or itching

Eye Contact: Itching and redness

Ingestion: Not applicable

SECTION 3: Compositions/Information on Ingredients

Chemical/Common Name	C.A.S Number	% by Weight	Exposure Guidelines
Amorphous Silica Fabric	7631-86-9	96-99	PEL: 15 mg/m ³ (Total Dust) 5 mg/m ³ (Respiratory Fraction)
			TLV: 10 mg/m ³ (Nuisance Dust)

(219) 661-8600 • Fax: (219) 661-8612
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For general questions
or quotes please contact
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SECTION 4: First Aid Measures

Eyes: Flush eyes with large amounts of water for 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention if irritation persists.

Skin: Wash gently with soap and water to remove dust and fibers.

Ingestion: Drink extra water to assist natural elimination. Seek medical attention if gastrointestinal irritation persists or other symptoms such as nausea, vomiting, or abdominal pain occur.

Inhalation: Move to fresh air. Drink water to clear throat and blow nose to remove fibers. Get medical attention if necessary.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Special Fire Fighting Instructions: Not applicable

Flash Point: Not applicable

Flammability Limits: Not applicable

Lower Explosive Limit: Not determined

Upper Explosive Limit: Not determined

Auto Ignition Temperature: Not applicable

SECTION 6: Accidental Release Measures

Action to Take for Spills/Leaks: Not applicable

Notification Information: There are no specific reporting requirements for release of this material as supplied under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendment Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements for the release of this material at the local, regional or state level.

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SECTION 7: Handling and Storage

Handling and Storage Procedures: No special handling or storage procedures required.

SECTION 8: Exposure Controls/Personal Protection

Engineering Controls/Work Practices Ventilation: Control airborne concentrations below the exposure guidelines specified by the Occupational Safety and Health Administration (OSHA) or other local, state and federal regulations.

Personal Protective Equipment/Protective Measures:

Respiratory Protection: Dust mask

Protective Clothing: Gloves, long sleeve clothing

Eye Protection: Safety glasses or goggles

SECTION 9: Physical and Chemical Properties

Physical State: Solid

Color: White

Specific Gravity (Water=1): 2.10

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Melting Point: >1,704.4°C (3,100°F)

Boiling Point: Not applicable

Evaporation Rate: (Water=1): Not applicable

Percent Volatile by Volume: Not applicable

Solubility in Water: Not applicable

pH: Not applicable

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SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions of use.

Incompatibility: Incompatible with fluorine, oxygen difluoride, chlorine bifluoride and alkalis.

Hazardous Decomposition Products: Not applicable

Hazardous Polymerization: Not applicable

SECTION 11: Toxicological Information

Direct contact with the fiberglass materials or exposure to airborne fibers may irritate the skin, eyes, nose and throat. Fiberglass can cause itching due to mechanical irritation from the fibers. This is not an allergic reaction to the material. Breathing fibers may irritate the airways resulting in coughing and scratchy throat. Some people are sensitive and others are not.

SECTION 12: Ecological Information

No known hazards, except for airborne fibers caused by nuisance dust 10 mg/m³ for fiber less than 7 microns.

SECTION 13: Waste Disposal Method

The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

SECTION 14: Transportation Information

None special required.

SECTION 15: Regulatory Information

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). The Canadian Workplace Hazardous Materials Information System (WHMIS) Other Toxic Effects category applies to this product.

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SECTION 16: Other Applicable Information

Product which has been in service at elevated temperatures (greater than 1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica which, if inhaled in sufficient quantity, can cause severe respiratory disease ("Pneumoconiosis"). The amount of cristobalite present will depend on the temperature and length of service. Cristobalite (inhaled) is classified as carcinogenic to humans (IARC, Group 1). The OSHA permissible exposure limit (PEL) for cristobalite is 0.05 mg/m³ as the respirable fraction of particulate matter. The ACGIH threshold limit value (TLV) for respirable quantities of cristobalite is 0.05 mg/m³.

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