

# SDS Silica Mat

## 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

### MANUFACTURER

Pyro Shield, Inc. (Main office)  
1171 Erie Court, Crown Point, IN. 46307  
Office: (219) 661-8600  
GENERAL ASSISTANCE: (219) 808-1258

Pyro Shield, Inc. (Satellite Office)  
1424 Sens Road, Unit # 3, Laporte, TX. 77571  
Office: (281) 941-9054

## SECTION 2 HAZARDS IDENTIFICATION

NFPA: Health =1, Fire = 0, Reactivity = 0, Specific Hazard = 0  
HMIS III: HI/FO/PHD

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 and possible rash; itching

Eye Contact: Itching & redness

Ingestion: N/A

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL/ COMMON NAME	C.A.S. NUMBER	% BY WEIGHT	EXPOSURE GUIDELINES
Amorphous Silica Fiber	7631-86-9	96-99	PEL 15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respiratory fraction) TLV 10 mg/m <sup>3</sup> (Nuisance dust)

Address: 1171 Erie Court • Crown Point, IN 46307

Email: [vsmith@pyroshield.com](mailto:vsmith@pyroshield.com)

Phone: 219.661.8600

Web: [www.pyroshield.com](http://www.pyroshield.com)

# SDS Silica Mat Cont.

## SECTION 4 FIRST AID MEASURES

**EYE:** 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:** NA

**FLASH POINT:** NA

**FLAMMABILITY LIMITS:** NA

**LOWER EXPLOSIVE LIMIT:** ND

**UPPER EXPLOSIVE LIMIT:** ND

**AUTO IGNITION TEMPERATURE:** NA

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS** N/A

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## 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.

## 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: NA

VAPOR DENSITY (air=1): NA

MELTING POINT: >1704.4 C (3100 F)

BOILING POINT: NA

EVAPORATION RATE (water=1): NA

% VOLATILE BY VOLUME: NA

SOLUBILITY IN WATER: NA

pH: NA

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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:** NA

**HAZARDOUS POLYMERIZATION:** NA

## 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 10mg per cubic meter 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.

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## 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.

### SARA TITLE III INFORMATION

This product is not classified under the hazard categories of the Superfund Amendments and Reauthorization Act (SARA) Section 311/312 (40 CFR 370)

## 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/m<sup>3</sup> as the respirable fraction of particulate matter. The ACGIH threshold limit value (TLV) for respirable quantities of cristobalite is 0.05 mg/m<sup>3</sup>.

**NOTICE TO USERS:** The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Data Safety Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vender for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.