

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: Pyrosil 2000, GR-4,GR-2, PS-2000 Pads, PS-1400 Pads, PS-3600 Pads, PyroKnit, Multi-Layer Fabrics & 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

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

GENERAL ASSISTANCE: (219) 808-1258

DATE OF PREPARATION OR LAST CHANGE: FEBRUARY 5, 2013

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL/ COMMON NAME</u>	<u>C.A.S. NUMBER</u>	<u>% BY WEIGHT</u>	<u>EXPOSURE GUIDELINES</u>
Amorphous Silica Fiber	7631-86-9	96-99	PEL 6 mg/m ³ (Total dust) 3 mg/m ³ (Respiratory fraction) TLV 10 mg/m ³ (Nuisance dust)

SECTION 3 HEALTH HAZARD IDENTIFICATION

PRIMARY ROUTES OF ENTRY

- EYE:** Not a normal route of exposure. However, contact with airborne dust and particles may cause irritation, pain, and itching.
- SKIN:** Prolonged contact with used material may cause reddening, itching, and inflammation.
- INGESTION:** Not a normal route of exposure. However, ingestion in sufficient quantities may cause gastrointestinal tract irritation.
- INHALATION:** Not a normal route of exposure. However, inhalation of airborne dust and particles may cause transient irritation of the upper respiratory tract. Effects may include coughing, nasal congestion or sore throat.

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CARCINOGEN

LISTINGS: IARC has determined that there is inadequate evidence for the carcinogenicity of glass filaments in humans and experimental animals. (IARC Class --3).

SECTION 4 FIRST AID MEASURES

EMERGENCY/FIRST AID PROCEDURES

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

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SECTION 6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS

NA

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: Respiratory protection is not normally necessary.

PROTECTIVE CLOTHING: Protective clothing is not normally necessary.

EYE PROTECTION: Eye protection is not normally necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

NA = Not Applicable

ND = Not Determined

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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

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 DISPOSAL CONSIDERATION

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 12 TRANSPORTATION INFORMATION

DOT INFORMATION

NA = Not Applicable

ND = Not Determined

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HAZARD CLASS: NA

PROPER SHIPPING NAME: NA

LABELS REQUIRED: NA

PLACARDS REQUIRED: NA

BILL OF LADING DESCRIPTION: Product Name

UN/NA CODE: NA

SECTION 13 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 14 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.

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.

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