



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **TXP 1660**
 Identity: Silica Sleaving
 Description: High Temperature Silica Sleaving

SUPPLIER

Industries 3R inc.
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COMPOSITION OF INGREDIENTS

<u>COMPOSITION OF INGREDIENTS</u>	<u>#CAS</u>	<u>% Weight</u>	<u>Exposure control limits</u>
Amorphous Silica (SiO ₂) Fiber	7631-86-9	97%	10 mg/m ³ ACGHIH-TLV 6 mg/m ³ OSHA-PEL
Surface Sizing (Acrylic Latex Polymer)	Mixture	<3%	Not listed

HAZARDS IDENTIFICATION

Primary Routes of Exposure: Inhalation, skin contact, eye contact. Oral not a normal route of exposure. Inhalation: May cause transient irritation of the upper respiratory tract. Effects may include coughing, nasal congestion or sore throat.

Skin Contact: Skin contact with fibers and dust may produce temporary irritation.

Eye Contact: Eye contact with fibers and dust may produce temporary irritation.

Carcinogen Listings: LARC has determined that there is inadequate evidence for the carcinogenicity of silica filaments in humans and experimental animals.

PHYSICAL DATA

Melting Point (Softening): >1704°C (3100°F).
 Boiling / Freezing: N/A
 Specific Gravity (Water=1.0): 2.1 (water = 1.0)
 Volatile by volume: N/A
 Vapor Pressure/Density/Oxidation: N/A
 Evaporative Rate: N/A
 % Solubility in Water: N/A
 Appearance: White, solid state textile forms. Continuous filament diameter 9u to 13 u+.
 pH: N/A
 Electrical Conductivity: N/A

FIRE – FIGHTING MEASURES

Flash Point, Explosion hazard: N/A This product is completely non-flammable.

Extinguishing Media: Water is preferred extinguishing media; however, use the extinguishing agent suitable for the surrounding fire.

Procedures: In any sustained fire, wear self-contained breathing apparatus (SCBA). Every company should have written, NFPA & OSHA compliant, fire/evacuation policies including training for all facility employees.

STABILITY AND REACTIVITY DATA

Stability: Stable under normal conditions of use.
Incompatibility: Incompatible with fluorine, oxygen difluoride, chlorine bifluoride and alkalines.
Hazardous Decomposition Products: Thermal decomposition may be hazardous if respirable crystalline silica is formed after sustained exposures beyond 982°C (1800°F) or carbon monoxide and carbon dioxide are produced. The amount of crystalline silica present will depend upon the temperature and length of service.
Hazardous Polymerization: N/A

FIRST-AID MEASURES

Inhalation: In case of overexposure immediately move person from contaminated area to fresh air. Get medical attention if necessary.
Skin Contact: Rinse contact areas with room temperature to cool water, then wash gently with mild soap. Do not rub or scratch area to embed fibers. If irritation persists, seek medical attention.
Eye Contact: Flush eyes with water for at least 15 minutes. Seek medical attention.

DISPOSAL AND TRANSPORTATION CONSIDERATIONS

The transportation, storage, treatment, and disposal of this product as waste material must be conducted in compliance with all applicable federal, state, and local regulations. Discharge to any source of drinking water is prohibited. This product as a continuous filament fiber glass or amorphous silica material is considered to be non-hazardous per EPA, RCA 40 CFR, Part 261, 1990 and is not regulated by the Department of Transportation (DOT).

EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Carbon Monoxide and Carbon Dioxide are formed from the organic coating when first heated. This occurs above 450 degrees F and will be complete by 750 degrees F. During this "burn-off" period, simple precautions should be taken. Local exhaust ventilation should be supplied especially in confined spaces to maintain appropriate airborne concentrations below the exposure guidelines specified by OSHA or other local, state and federal regulations.

Respiratory Protection: Respiratory protection is not normally necessary. However, if airborne fiber concentrations exceed the TLV, respiratory irritation is experienced, or emergency situations warrant, respiratory protection approved for nuisance dusts is recommended which meets the requirements for OSHA's 29 CFR 1910.134.

Skin / Eye Protection: Good personal hygiene and use of barrier creams, caps, protective gloves, cotton overalls, or long-sleeve loose fitting clothing will maximize comfort. Wear appropriate eye protection which may be safety glasses/side shields if there is a chance of airborne fibers contacting the eyes.

ACCIDENTAL RELEASE MEASURES

Steps to be upon Release or Spill: Use vacuuming or wet sweeping methods instead of dry sweeping.
Waste Disposal, Notification: There may be specific local reporting requirements for the release of this material at the local, regional, or state level. However, there are no specific reporting requirements for this material as supplied under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendment and Reauthorization Act (SARA) (40 CFR 355).

HANDLING AND STORAGE

Precautions: Storage temperature is not important unless you get above the decomposition temperature of organic coating still on the silica fibers. Any temperature below 450 degrees F is safe. Silica will not degrade at these temperatures. Humidity is not a problem. Silica is Hygroscopic and will pull moisture from the air. This could cause fiber fracture if the silica product is put into a high temperature furnace from a room temperature. The moisture turns to steam rapidly and may cause fracture. At 1800 degrees F the amorphous silica begins to crystalize. Higher temperature and longer times increase the crystallization. When exposed to high temperature /time environments, the cooled product could produce short broken fibers that could be respirable. The unheated silica fiber if crushed will form broken fibers but they are longer and will not be respirable. The general rule is to keep the temperature below 1800 degrees f. However, excursions up to 2500 degrees F for less than 10 minutes would be safe.

In addition, it is suggested to keep in closed containers or original packaging to minimize airborne dust and contamination.

TOXICOLOGY AND ECOLOGICAL INFORMATION

Fiber Dimensions: Product fibers are considered non-respirable due to their diameter greater than 3u. The fibers do not become respirable upon breakage, where they normally break horizontally into smaller lengths but not longitudinally into smaller lengths.

Exposure: Persons pre-existing skin and respiratory disorders may be more susceptible to the effects of contact with this material.

Carcinogenicity: The International Agency for Research on Cancer (IARC) has concluded that continuous fiber glass filaments (including silica) are not classifiable as to their carcinogenicity in humans because of the lack of inadequate evidence in 20 year latency studies where no detectable tumor response or cancer evidence was found. The American Conference of Government Industrial Hygienists (ACGIH) gives fibrous glass dust an A5 designation meaning it is not considered to be a carcinogen..

This product is generally considered to be an inert solid waste, and no special precautions are necessary when it is released or spilled.

REGULATORY INFORMATION

All components of this product are listed on the Toxic Substance Control Act (TSCA) inventory and the Canadian Domestic Substances List (CDSL) inventory. The Canadian Workplace Hazardous Materials Information Systems (WHMIS) "other toxic effects" category applies to this product.

SARA Title III: This product does not contain toxic chemicals (in excess of the applicable de minimus concentrations) that are applicable to the annual toxic chemical release reporting requirements.

OSHA: Subject to the applicable requirements of OSHA Hazard Communication Standard. These products are not known to contain chemical ingredients listed by the Pennsylvania, New Jersey, or Massachusetts Right To Know Law or California's Proposition 65 Law in excess of the amounts requiring reporting on such substances' SDS or labels.

OTHER INFORMATION

The information provided in this Health & Safety Data Sheet is based on our current knowledge. While the information and recommendations set forth herein are believed to be accurate, Industries 3R takes no warranty with respect thereto and disclaims all liability in reliance thereon. We recommend testing according to local conditions. The specifications are subject to change without notice.