



SDS Number: HXNL-1

Revised/Reviewed: 08/20/2018

Revised From: 07/07/2016

**SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME OR NUMBER:

- **HYTEX® 2200** and **HYTEX 2500** ceramic textile products; fabric, cloth, tape, sleeving, rope, cordage, yarn, rovings, paper and thread.
- **THERMOPAK®** custom fabricated products are made using one of or a combination of the above listed products.

COMPANY:	Mid-Mountain Materials, Inc.	TELEPHONE:	206-762-7600
ADDRESS:	Office: PO Box 800 2731 77th Ave. SE, Ste. 100 Mercer Island, WA 98040	EMERGENCY TELEPHONE NUMBER:	800-382-2208
	Plant: 18825 67th Ave. NE Arlington, WA 98223	FAX:	206-762-7694

**SECTION 2 • HAZARDS IDENTIFICATION**

This product, when used under reasonable conditions and in accordance with the manufactures directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.



**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT:** Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing, and corneal abrasion.

**SKIN CONTACT:** Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

**INHALATION:** Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**INGESTION:** Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea, and vomiting.

**TARGET ORGAN EFFECTS:** Due to their large size (7-13 microns in diameter), fibers are considered non-respirable and, therefore, are not expected to pose a cancer risk. Fibers are defined as respirable by WHO convention if the length is larger than 5 microns and the diameter is less than 3 microns with a length to diameter ratio greater than 3:01.

**SECTION 3 • COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL / COMMON NAME	C.A.S. NUMBER	% BY WEIGHT (opt)
Aluminoborosilicate Fibers	12788-79-3	96.5 - 99.5
Organic Sizing	Unknown	0.5 - 3.5

**SECTION 4 • FIRST-AID MEASURES**

**EMERGENCY/FIRST-AID PROCEDURES**

The following first-aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**EYE CONTACT:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**SKIN CONTACT:** Immediately flush skin with large amounts of water. If signs/symptoms develop, get medical attention.

**INHALATION:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**INGESTION:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention. No need for first-aid is anticipated.

**SECTION 5 • FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Material will not burn.

**SPECIAL FIRE FIGHTING PROCEDURES:** Nonflammable.

**AUTO IGNITION TEMPERATURE:** ND

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No unusual fire or explosion hazards are anticipated.

**SECTION 6 • ACCIDENTAL RELEASE MEASURES**

**ACTIONS TO TAKE FOR SPILLS/LEAKS:** Wet sweep or vacuum fibrous dust. Observe precautions from other sections.

**SECTION 7 • HANDLING AND STORAGE**

**PRECAUTIONS:** Avoid eye contact. Avoid prolonged or repeated skin contact. Avoid breathing of airborne material. Wash hands after handling and before eating. Store under normal warehouse conditions.



**SECTION 8 • EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS/WORK PRACTICES**

Provide appropriate local exhaust when product is heated. Use in a well-ventilated area. If exhaust ventilation is not available, use appropriate respiratory protection. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

**PERSONAL PROTECTIVE EQUIPMENT/PROTECTIVE MEASURES**

**EYE/FACE PROTECTION:** Use Safety Glasses with side shields.

**PROTECTIVE CLOTHING:** Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Avoid prolonged or repeated skin contact.

**RESPIRATORY PROTECTION:** Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask R95 particulate respirator, half-mask or full-face piece air-purifying respirator with N100 particulate filters, half-face piece or full-face air-purifying respirator with P100 particulate filters, half-face piece or full-face air-purifying respirator with P95 particulate filters, half-face piece or full-face air-purifying respirator with N95 particulate filters.

**PREVENTION OF SWALLOWING:** Do not ingest.

**EXPOSURE GUIDELINES**

- Refractories, Fibers, Aluminosilicate

ACGIH TLV: (8-hr TWA) 0.2 f/cc

OSHA PEL: (8-hr TWA) 15 mg/m<sup>3</sup> inhalable dust  
5 mg/m<sup>3</sup> respirable dust

**AIR SAMPLING/ANALYTICAL METHODS:** Gravimetric total dust NIOSH Sampling & Analytical Method 0500; the Gravimetric respirable dust NIOSH Method 0600 and the NIOSH 7400 B Fiber Counting Rules; and IOM Sampler for meeting ACGIH criteria for inhalable particulate mass.

**SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Solid

**COLOR, ODOR, GRADE:** Textile grade fibers which are equal to or greater than 7 microns in diameter, shiny, white, thread, yarn or fabric.

**pH:** N/A

**MELTING POINT:** ≥ 3270°F (1800°C)

**BOILING POINT:** N/A

**FLASH POINT:** N/A

**EVAPORATION RATE:** N/A

**FLAMMABILITY LIMITS:** N/A

**VAPOR PRESSURE:** N/A

**VAPOR DENSITY:** N/A

**SPECIFIC GRAVITY:** 2.7 [Ref Std: WATER=1]

**PERCENT VOLATILE BY VOLUME:** ND

**SECTION 10 • STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal conditions of use.

**MATERIALS AND CONDITIONS TO AVOID:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION or BY-PRODUCTS:**

Substance Condition

Carbon monoxide At Elevated Temperatures  
Irritant Vapors or Gases At Elevated Temperatures

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, formic acid, and trace amounts of other substances.

**SECTION 11 • TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the SDS for Toxicological Information on this material and/or its components.

**SECTION 12 • ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** ND

**CHEMICAL FATE INFORMATION:** ND

**SECTION 13 • DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Reclaim if feasible. Dispose of waste product in a sanitary landfill. Since regulations vary, consult applicable regulations or authorities before disposal.

**SECTION 14 • TRANSPORT INFORMATION**

**UN/NA CODE:** None.

**PROPER SHIPPING NAME:** Not regulated.

**HAZARD CLASS:** Not considered hazardous waste under federal "RCRA" regulations.

**DOT INFORMATION:** Not regulated.

**LABELS REQUIRED:** None.

**BILL OF LADING DESCRIPTION:** None.

**SECTION 15 • REGULATORY INFORMATION**

**US FEDERAL REGULATIONS**

**SARA TITLE 3 SEC 311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No  
Reactivity Hazard - No Immediate Hazard - Yes  
Delayed Hazard - No

**US STATE REGULATIONS**

**CHEMICAL INVENTORIES:** The components of this product are in compliance with the chemical notification requirements of TSCA.

**CALIFORNIA PROPOSITION 65:** The Safe Drinking Water and Toxic Enforcement Act of 1986, has listed "Ceramic Fibers (airborne fibers of respirable size)" as a material known to the State of California to cause cancer.

**INTERNATIONAL REGULATIONS**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NFPA hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**SECTION 16 • OTHER APPLICABLE INFORMATION**

**HMIS and NFPA Hazard Rating:**

CATEGORY	HMIS	NFPA
Acute Health	1	1
Flammability	0	0
Reactivity	1	1

**NFPA Unusual Hazards:** None known.



HMIS Personal Protection: None known.

**DEFINITIONS**

29 CFR 1910.134 & 1926.103:  
OSHA Respiratory Protection Standards  
29 CFR 1910.1200 & 1926.59:  
OSHA Hazard Communication  
ACGIH American Conference of Governmental Industrial Hygienists  
ADR Carriage of Dangerous Goods by Road (International Regulation)  
CAA Clean Air Act  
CAS Chemical Abstract Services  
CERCLA Comprehensive Environmental Response, Compensation and Liability Act  
CFR Code of Federal Regulations  
DOT Department of Transportation  
DSL Domestic Substances List (Canada)  
EEC European Economic Committee  
EINECS European Inventory of Existing Commercial Chemical Substances  
EPA Environmental Protection Agency  
EU European Union  
HEPA High Efficiency Particulate Air  
HMIS Hazardous Materials Information System  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IMDG International Maritime Dangerous Goods Code  
LC Lethal Concentration  
LD Lethal Dose  
NFPA National Fire Protection Association  
NIOSH National Institute for Occupational Safety and Health  
NTP National Toxicology Program  
OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
PIN Product Identification Number  
PNOC Particulates Not Otherwise Classified  
PNOR Particulates Not Otherwise Regulated  
RCRA Resource Conservation and Recovery Act  
RID Carriage of Dangerous Goods by Rail

(International Regulation)  
SARA Superfund Amendments and Reauthorization Act  
STEL Short Term Exposure Limit  
TCLP Toxic Chemical Leachate Program  
TDG Transportation of Dangerous Goods

TITLE III EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT – SECTION:

302 Extremely Hazardous Substances  
303 Emergency Release  
311 SDS/List of Chemicals  
312 Emergency and Hazardous Inventory  
313 Toxic Chemicals Release Reporting

TLV Threshold Limit Value  
TSCA Toxic Substance Control Act  
TWA Time Weighted Average  
WHMIS Workplace Hazardous Materials Information System

µm micrometer (micron)  
mm millimeter  
cm centimeter  
m meter  
f/cc fibers per cubic centimeter  
ml milliliter  
in inch  
oz ounce  
lb pound  
µg microgram  
mg milligram  
g gram  
kg kilogram  
µg/cm<sup>2</sup> micrograms per centimeters squared  
mg/m<sup>3</sup> milligrams per cubic meter of air  
mppcf million particles per cubic foot  
ppm parts per million

N/A Not Applicable  
ND No Data/Not Determined  
NE Not Established  
NR Not Regulated

To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible long-term adverse effects. To the extent that any hazards may have been mentioned in the publication, we neither suggest nor guarantee that such hazards are the only ones that exist. Final determination of the suitability of any information or product for the use contemplated by any user, the manner of that use, and whether there is any infringement of any patents is the sole responsibility of the user. We recommend that anyone intending to rely on any recommendation or to use any equipment, processing technique, or material mentioned in this publication should satisfy himself as to such suitability and that he can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturers' or suppliers' current instruction for handling each material they use.

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