



SDS Number: HXNL-1

Revised/Reviewed: 07/07/2016

Revised From: 07/30/2015

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: NE

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: $\geq 3270^{\circ}\text{F}$ (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:

<u>Substance</u>	<u>Condition</u>
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.

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:

<u>CATEGORY</u>	<u>HMIS</u>	<u>NFPA</u>
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 ²	micrograms per centimeters squared
mg/m ³	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.

<<< End of SDS >>>