



SDS Number: HX50-1

Revised/Reviewed: 07/07/2016

Revised From: 07/30/2015

SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER:

- **HYTEX®-5000**, textiles products; fabric, cloth, felt, tape, rope, sleeving, yarn, thread.
- **THERMOPAK** custom fabricated products are made using one of one or more 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

POTENTIAL HEALTH EFFECTS

None, according to the definition of hazardous material in 29 CFR 1910.1200(OSHA).

PRIMARY ROUTE(S) OF EXPOSURE

INGESTION: Chemically inert; no known hazards.

INHALATION: Dust may produce mechanical irritation to the mucous membranes of the nose, throat, and upper respiratory tract.

SKIN CONTACT: Mechanical irritation accompanied by itching or dermatitis may occur from exposure to broken filaments or loose particulate of carbon fibers.

EYE CONTACT: Particulate matter may cause eye irritation.

SECTION 3 • COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL / COMMON NAME	C.A.S. NUMBER	% BY WEIGHT (opt)
Oxidized polyacrylonitrile (PAN) fiber	68908-35-0	100

SECTION 4 • FIRST-AID MEASURES

FIRST AID & EMERGENCY PROCEDURES: If product irritates skin, wash area with mild soap and water. If particulate gets in eyes, flush with plenty of water for several minutes. If skin, eye, or respiratory irritation persists, seek medical attention promptly.

SECTION 5 • FIRE-FIGHTING MEASURES

These products are made out of textile fibers, which does not melt or char and will not support combustion.

FIRE AND EXPLOSION DATA: HYTEX®-5000 textiles does not burn, does not melt or char and will not support combustion in air. But exposure to temperature above 570°F (300°C) can produce Hydrogen Cyanide, a toxic gas. Off-gas volume depends upon temperature, duration of exposure and fiber volume.

EXTINGUISHING MEDIA: Not required.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus and complete protective equipment to protect against hazardous decomposition products. Spray HYTEX®-5000 products with water to keep them below the decomposition temperature.

ELECTRICAL HAZARDS: HYTEX®-5000 products are not carbonized and therefore are not electrically conductive as shipped. Exposure of the temperature above 570°F may cause carbonization of the fibers and render them electrically conductive.

SECTION 6 • ACCIDENTAL RELEASE MEASURES & DISPOSAL

ACTION TO TAKE FOR SPILLS/LEAKS: Use appropriate personal protective equipment during cleanup. Use filtered vacuum cleaner with grounded cord or wet sweeping methods, to collect loose materials; avoid circulating airborne fibrous particles during cleanup operation.

WASTE DISPOSAL METHODS: HYTEX®-5000 is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). In general, dispose in accordance with all federal, state, and local laws.

Do not incinerate. Waste material should be bagged or containerized, sealed, and disposed of in an approved landfill in accordance with federal, state, and local regulations. Product as shipped is not considered a hazardous waste under current RCRA regulation.

SECTION 7 • HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES: Store HYTEX®-5000 products in original container. Avoid conditions that may generate dust or lint.

SECTION 8 • EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Treat particulate as a nuisance dust. Recommended OSHA/ACGIH TLV is 10 mg/m³ (total dust) and 5 mg/m³ (respirable dust).

ENGINEERING CONTROLS/WORK PRACTICES

VENTILATION: LOCAL EXHAUST: Recommended when appropriate to control employee exposure, especially at points where fragmentation or particulate generation may occur.

RESPIRATORY PROTECTION: When dust concentration exceeds recommended TLV of 10 mg/m³ (total dust) or 5 mg/m³ (respirable dust) wear NIOSH approved particulate respirator.

PROTECTIVE GLOVES: Wear gloves when handling.

EYE PROTECTION: Wear safety goggles if dust or lint is present.

OTHER PROTECTION MEASURES: Apply barrier cream or wear long sleeved shirt to prevent fibrous matter contacting exposed skin.



Wash work clothing frequently. Wash exposed skin areas before eating and at the end of your work. Keep the work area free of dust and fibers.

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

HYTEX®-5000 products are made out of oxidized polyacrylonitrile (PAN) fiber.

PHYSICAL STATE: Solid – continuous multi-filament yarns with a wide range of total denier and staple of varying denier per filament and cut length.

COLOR AND ODOR: Black & odorless

FILAMENT DIAMETER: 9-15 microns.

pH: N/A

MELTING POINT: N/A

BOILING POINT: N/A

EVAPORATIVE RATE (n-Butyl Acetate = 1): N/A

VAPOR PRESSURE: (mm Hg @ 20°C): N/A

TYPICAL DENSITY: 1.4 g/cc

PERCENT SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY (water = 1): ND

VISCOSITY: N/A

PERCENT VOLATILE BY VOLUME: N/A

POUR POINT: N/A

SECTION 10 • STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Cyanide (HCN).

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

SECTION 11 • TOXICOLOGICAL INFORMATION

No data available

SECTION 12 • ECOLOGICAL INFORMATION

No data available

SECTION 13 • DISPOSAL CONSIDERATIONS

Waste material must be disposed according to the local, state and federal regulation.

SECTION 14 • TRANSPORTATION INFORMATION

UN/NA CODE: None.

PROPER SHIPPING NAME: Synthetic textiles and fibers NOI.

HAZARD CLASS: Non-hazardous.

DOT INFORMATION: Not regulated.

LABELS REQUIRED: None.

BILL OF LADING DESCRIPTION: Product name.

SECTION 15 • ADDITIONAL REGULATORY INFORMATION

Not Applicable

SECTION 16 • OTHER APPLICABLE INFORMATION

This SDS is provided to comply with provisions of the Hazard Communications Standard (29 CFR 1910.1200) (OSHA).

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.

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