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SDS Number: CX23-1A Revised/Reviewed: 08/14/2018 Revised From: 07/06/16

SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER:

• CERMEX®-2300 blanket, mat or felt.

• 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

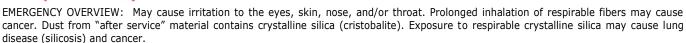
ADDRESS: Office: PO Box 80266 EMERGENCY TELEPHONE NUMBER: 800-382-2208 5602 2nd Ave S

Seattle, WA 98108 FAX: 206-762-7694

Plant: 18825 67th Ave NE Arlington, WA 98223

SECTION 2 • HAZARDS IDENTIFICATION





US OSHA HAZARD CLASSIFICATION: Manufactures Article (dust generated from processing – hazardous carcinogen, irritant, exposure limit). EU PREPARATION CLASSIFICATION (1999/45/EC): Manufactured Article (dust generated from processing – Carc Cat 2, Xi, R38, R49). Refer to Section 16 for Full Text of EU Classes and R Phrases.

SECTION 3 • COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL / COMMON NAME	CAS NUMBER	% BY WEIGHT (optional)
Refractories, Fibers, Aluminosilicate	142844-00-6	0 - 95%
Aluminum Oxide (fibrous) polycrystalline	1344-28-1	0 - 94%
Continuous Filament Fiberglass	65997-17-3	0 - 10%
Polymer Binder	Proprietary	0 - 15%
Refer to section 8 of this SDS for data on exposure limits.		

SECTION 4 • FIRST-AID MEASURES

EMERGENCY/FIRST-AID MEASURES

EYE CONTACT: Do not rub your eyes. Dust particles may cause abrasive eye injury. Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation persists.

SKIN CONTACT: Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap and water. Do not use hot water as that opens skin pores and may increase fiber penetration and irritation. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

INGESTION: If small quantities are swallowed, rinse out mouth with water. Drink plenty of water to help reduce irritation. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

INHALATION: Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Get medical attention if irritation persists.

SECTION 5 • FIRE-FIGHTING PROCEDURES

EXTINGUISHING MEDIA: Use water, water fog, carbon dioxide, foam, or dry chemical.

FIRE-FIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus for all fires involving chemical products.

UNUSUAL FIRE/EXPLOSION HAZARD: This product is not classified as flammable or combustible.

HAZARDOUS PRODUCTS OF COMBUSTION: Combustion of the product binder may generate oxides of carbon.

SECTION 6 • ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear appropriate protective clothing and equipment (see section 8). Pick up material and place into a container for disposal. If dust is present, wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner.

PERSONAL PRECAUTIONS: Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: None known.

SECTION 7 • HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid creating airborne dusts. Do not breathe dust. Wear protective



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clothing and equipment as described in section 8. Use only adequate ventilation. Do not eat, drink, or smoke when using this material. Launder contaminated clothing before re-use. Wash thoroughly with soap and water after handling. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. Free from settled dust. Vacuum only using HEPA filtered equipment. Take special precautions when removing or handling this product after exposure to high temperatures.

Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

STORAGE: Store in a dry, well-ventilated area.

SECTION 8 ● EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is handled, cut or processed in a manner that generates dust.

PERSONAL PROTECTIVE EOUIPMENT

EYE PROTECTION: Wear safety glasses with side shields or dust proof goggles.

SKIN PROTECTION: Wear protective gloves to minimize skin contact. Barrier creams may be useful in reducing irritation.

RESPIRATORY PROTECTION: If the occupational exposure limits are exceeded or irritation is experienced, wear an approved particulate respirator. Selection of respiratory protection depends on the contaminant type, form, and concentration. Select and use in accordance with all applicable regulations (in the US follow OSHA 1910.134) and good industrial hygiene practices.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: Clothing with long sleeves and pants should be worn to avoid skin contact. Washing facilities should be available in the work area. Work clothing should be laundered separately from normal clothing.

EXPOSURE GUIDELINES

Refractories, Fibers, Aluminosilicate
 ACGIH TLV: (8-hr TWA)
 0.2 f/cc

OSHA PEL: (8-hr TWA) 15 mg/m³ inhalable dust

5 mg/m³ respirable dust

• Aluminum Oxide (fibrous) polycrystalline

OSHA PEL: (8-hr TWA) 15 mg/m³ inhalable dust

5 mg/m³ respirable dust

• Special Purpose Glass Fiber Respirable Size

ACGIH TLV: (8-hr TWA) 1 f/cc

OSHA PEL: (8-hr TWA) 15 mg/m³ inhalable dust

5 mg/m³ respirable dust

1 f/cc

• Polymer Binder

OSHA PEL: (8-hr TWA) 15 mg/m³ inhalable dust

5 mg/m³ respirable dust

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

ODOR AND APPEARANCE: White odorless bonded web

pH: N/A

MELTING POINT: >700°C (glass fiber)

BOILING POINT: N/A
FLASH POINT: N/A
EVAPORATION RATE: N/A
FLAMMABILITY: N/A

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY: N/A

WATER SOLUBILITY (%): Insoluble AUTO-IGNITION TEMPERATURE: N/A

% VOLATILE: 0

SPECIFIC GRAVITY: N/A

VISCOSITY: N/A

SECTION 10 • STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under conditions of normal use.

CONDITIONS TO AVOID: Avoid dust formation. CHEMICAL INCOMPATIBILITIES: Avoid strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition of polymer binder will generate oxides of carbon, fluorine, hydrogen fluoride, and various hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 • TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

EYES: Dust may cause mechanical irritation and possible injury.

SKIN: Dust may cause mechanical irritation.

INGESTION: May cause irritation of the mouth and intestinal tract.

INHALATION: Dust may cause nose, throat, and upper respiratory tract irritation. Symptoms include coughing, sneezing, and scratchy throat.

CHRONIC HEALTH EFFECTS: Prolonged inhalation of respirable dust from this product may cause adverse effects on lungs and is suspected to cause lung cancer. The University of Cincinnati is conducting an ongoing epidemiologic study of refractory ceramic fiber workers. To date they have seen no evidence of fibrotic lung disease. After this product has been in service at high temperatures (>1000°C), ceramic fibers can be transformed into cristobalite, a crystalline form of silica. Exposure to respirable crystalline silica may cause a permanent, disabling, and sometimes fatal lung disease, silicosis, and lung cancer. Inhalation of air with a very high concentration of respirable silica dust can cause the most serious forms of silicosis in a matter of months or a few years.

CARCINOGENICITY: Glass wool including special purpose glass fibers (respirable size) are classified by NTP as reasonably anticipated to be a carcinogen. IARC has classified special purpose glass fibers as group 2B, possibly carcinogenic to humans. ACGIH has classified special purpose glass fibers as A3, confirmed animal carcinogen with unknown relevance to humans. Mineral wool (special purpose glass fibers) is classified as a category 3 carcinogen in the EU Dangerous Substances Directive. OSHA has not classified special purpose glass fibers. Ceramic fibers (respirable size) is classified by NTP as reasonably anticipated to be a carcinogen. IARC has classified refractory ceramic fibers as group 2B, possibly carcinogenic to humans. Refractory ceramic fibers are classified as a category 2 carcinogen in the EU Dangerous Substances Directive. Both IARC and NTP have classified respirable crystalline silica as a known human carcinogen. ACGIH has classified refractory ceramic fibers and cristobalite as A2, suspected human carcinogens. OSHA has not classified ceramic fibers or crystalline silica. None of the other components are classified as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EU Dangerous Substances Directive.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

ACUTE TOXICITY DATA: No specific data is available.



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SECTION 12 • ECOLOGICAL INFORMATION

No adverse effects of this material on the environment are anticipated.

SECTION 13 • DISPOSAL CONSIDERATIONS

Dispose in accordance with all federal, state, and local regulations.

SECTION 14 • TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

HAZARD CLASS: N/A UNITED NATIONS NUMBER: N/A LABELS: N/A NORTH AMERICA NUMBER: N/A PLACARDS: N/A BILL OF LADING: Product name

INTERNATIONAL

Not classified as dangerous goods under ADR (road), RID

(train), IATA (air), or IMDG (ship).

SECTION 15 • ADDITIONAL REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS

SARA TITLE III:

HAZARD CATEGORY FOR SECTION 311/312: This product is a manufactured article and not subject to reporting.

SECTION 313 TOXIC CHEMICALS: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None.

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (TPQ): None. US TOXIC SUBSTANES CONTROL ACT INVENTORY (TSCA): This product is an article and not subject to TSCA.

UNITED STATES STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product contains continuous filament fiber glass and ceramic fibers which is known to the State of California to cause cancer. This product may also contain trace amounts of formaldehyde which is known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS

EU LABELING: Finished product is an article and no labelling is required.

EU CHEMICAL INVENTORY (EINECS)/REACH: This product is considered an article under EINECS and REACH.

RoHS (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS compliant.

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES: This product is an article and not subject to chemical notification requirements.

CHINA INVENTORY OF EXISTING CHEMICALS AND CHEMICAL SUBSTANCES: This product is an article and not subject to chemical notification requirements.

JAPANESE EXISTING AND NEW CHEMICAL SUBSTANCES: This product is an article and not subject to chemical notification requirements.

KOREAN EXISTING CHEMICALS LIST: This product is an article and not subject to chemical notification requirements

INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES: This product is an article and not subject to chemical notification requirements.

CANADIAN CEPA NEW CHEMICAL NOTIFICATION: This product is an article and not subject to chemical notification requirements.

CANADIAN WHMIS: If dust is generated in processing, this dust would be classified as Class 2-D-A (eye, skin, and respiratory irritant, carcinogen).

NEW ZEALAND: This product is an article and not subject to chemical notification requirements.

SECTION 16 ● OTHER APPLICABLE INFORMATION

EU CLASSES AND RISK PHRASES FOR REFERENCE (See Sections 2 and 3):

- Carc Cat 2 Carcinogen Category 2
- Carc Cat 3 Carcinogen Category 3
- Xi Irritant
- R38 Irritating to skin
- R40 Limited evidence of a carcinogenic effect
- R49 May cause cancer by inhalation

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)

Clean Air Act CAA

CAS Chemical Abstract Services CERCLA Comprehensive Environmental

Response, Compensation and Liability Act

Code of Federal Regulations

CFR 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 International Air Transport Association IATA International Maritime Dangerous Goods Code **IMDG**

Lethal Concentration LC

LD Lethal Dose

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

National Toxicology Program NTP Occupational Safety and Health **OSHA** Administration

Permissible Exposure Limit PEL PIN Product Identification Number Particulates Not Otherwise Classified **PNOC PNOR** Particulates Not Otherwise Regulated Resource Conservation and Recovery Act **RCRA**

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 Transportation of Dangerous Goods TDG

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

Extremely Hazardous Substances 302

303 **Emergency Release** 311 SDS/List of Chemicals



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312	Emergency and Hazardous Inventory	OZ	ounce
313	Toxic Chemicals Release Reporting	lb	pound
		μg	microgram
TLV	Threshold Limit Value	mg	milligram
TSCA	Toxic Substance Control Act	g	gram
TWA	Time Weighted Average	ka	kilogram

WHMIS Workplace Hazardous Materials Information System µg/cm² micrograms per centimeters squared mg/m^3 milligrams per cubic meter of air ит

million particles per cubic foot micrometer (micron) mppcf millimeter ppm parts per million mm centimeter cm

meter Not Applicable m N/A No Data/Not Determined f/cc fibers per cubic centimeter ND

NE Not Established ml milliliter inch NR Not Regulated in

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 >>>