



SDS Number: **BXM22-P**

Revised/Reviewed: **11/27/18**

Revised From: **08/23/2018**

SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **THERMOSEAL® M22 PUMPABLE MOLDABLE.**

COMPANY:	Mid-Mountain Materials, Inc.	TELEPHONE:	206-762-7600
ADDRESS:	Office: PO Box 800 5602 2nd Ave. S Seattle, WA 98108	EMERGENCY TELEPHONE NUMBER:	800-382-2208
	Plant: 18825 67th Ave. NE Arlington, WA 98223	FAX:	206-762-7694

SECTION 2 • HAZARDS IDENTIFICATION



OVERVIEW

May be harmful if swallowed. May cause skin and eye irritation. Dried, abraded product may cause respiratory tract irritation and pose possible cancer hazard by inhalation. (See Section 11 for more information)

POTENTIAL HEALTH EFFECTS

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases may be aggravated by dust.

TARGET ORGANS: Skin, eyes, and lungs.

ACUTE HEALTH EFFECTS: Mechanical irritation of respiratory system, skins, and eyes.

CHRONIC HEALTH EFFECTS: Exposure to "after service" dust containing cristobalite may be aggravated by dust.

PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, eye and skin contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Overexposure to dust may cause irritation or soreness in the throat and nose.

SKIN CONTACT: Irritation or rash.

EYES: Irritation or inflammation of the eyes.

INGESTION: May cause irritation to the gastro-intestinal tract.

SECTION 3 • COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMMON NAME</u>	<u>C.A.S. NUMBER</u>	<u>% wt/wt</u>
• Refractories, Fibers, Aluminosilicate	142844-00-6	10-25
• Polymer/Additives	Proprietary	1-5
• Silica, Amorphous	7631-86-9	20-50
• Water	7732-18-5	30-50
• Propylene Glycol	57-55-6	1-5

SECTION 4 • FIRST-AID MEASURES

EMERGENCY/FIRST-AID PROCEDURES

SKIN: If product gets on skin, wash area with mild soap and water. If any irritation occurs seek medical attention

EYES: If particles get in eyes flush with plenty of water for 15 minutes. If any irritation occurs, seek medical attention.

INHALATION: Remove to fresh air. Drink water to clear throat. Blow nose to evacuate fibers.

INGESTION: Do not induce vomiting.

SECTION 5 • FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus and complete protective equipment to protect against hazardous decomposition and combustion products.

SECTION 6 • ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS

Use HEPA-filtered vacuum cleaner or wet sweeping methods to collect loose material. Avoid generation of airborne fibrous particles during clean up operation. Wear protective clothing.

WASTE MANGEMENT:

This product is not listed as a hazardous waste nor does it exhibit any characteristics of a hazardous waste. Do not allow to enter sewers ground water.



SECTION 7 • HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES: Store in original containers. Avoid conditions that could generate fiber dust.

SECTION 8 • EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/WORK PRACTICES:

VENTILATION: (Local Exhaust) recommend when appropriate to control employee exposure, especially at points where fragmentation or particulate generation may occur.

PERSONAL PROTECTIVE EQUIPMENT/PROTECTIVE MEASURES

RESPIRATORY PROTECTION: use with adequate ventilation; where ventilation or other controls are in adequate use NIOSH/MDHS approved particulate respirators in compliance with OSHA Respiratory Standard 29 CFR 1910.134 and 29 CFR 1926.103 for the particular hazard or airborne concentrations to encountered in the work environment.

Less than (<) 0.5 fiber/cc, use 3M 9900 or equivalent.

< 10 fibers/cc, use MSA COMFO Half-Mask (or equivalent) with HEPA filters.

< 50 fibers/cc, use MSA ULTRA-TWIN (or equivalent) with HEPA filters.

>50 fibers/cc, use NIOSH approved full face respirator with positive-pressure supplied air.

AFTER SERVICE AT TEMPS. > 1832° F (1000°C):

<0.25 mg/m³, use MSA COMFO Half-Mask (or equivalent) with HEPA filters.

<1.25 mg/m³, use MSA ULTRA-TWIN (or equivalent) with HEPA filters.

>1.25 mg/m³, use NIOSH approved full face respirator with positive pressure air supply.

PROTECTIVE CLOTHING: Use barrier gloves if handling produces skin irritation.

EYE PROTECTION: Safety eyewear may be appropriate when handling.

OTHER PROTECTIVE EQUIPMENT: Barrier creams and long sleeve garments may be used to prevent fibrous matter from contacting exposed skin. Wash hands after handling. Wash contaminated clothing separately. Disposable coveralls are recommended if excessive dusting occurs.

EXPOSURE GUIDELINES:

Major Component	OSHA PEL	ACGIH TLV	MANUFACTURER'S REG
Refractories, Fibers, Aluminosilicate	None Established	0.2f/cc, 8-hr. TWA	0.5f/cc, 8-hr. TWA
Propylene Glycol	None Established	None Established	10mg/m ³ TWA

Maintain work areas free of loose material. Use proper work practices and good personal hygiene when handling product.

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Wet thick sticky paste

COLOR AND ODOR: Pale white/Off white, mild odor.

pH: N/A

MELTING POINT: N/A

BOILING POINT: N/A

FLASH POINT: N/A

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

FLAMMABILITY LIMITS: N/A

LOWER EXPLOSIVE LIMIT: N/A

UPPER EXPLOSIVE LIMIT: N/A

VAPOR PRESSURE: (mm/Hg @ 20°C): N/A

% SOLUBILITY IN WATER: Insoluble when dried.

SPECIFIC GRAVITY (water = 1): 2.5-3.0

AUTO IGNITION TEMPERATURE: N/A

VISCOSITY: N/A

% VOLATILE BY VOLUME: 0

POUR POINT: N/A

SECTION 10 • STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

INCOMPATIBILITY: Not known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known. May be some carbon dioxide, carbon monoxide and water from fire.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 • TOXICOLOGICAL INFORMATION

Chronic exposure to airborne dust from ceramic fiber may be hazardous. **Research suggests that this material might act as a carcinogen or cause mesothelioma if inhaled over a prolonged period.** Refractor Ceramic Fiber (RCF) is a European class 2 carcinogen.

(Chronic) Two categories of studies on laboratory animals show exposure by breathing high concentrations or implantation creates tumors. No data is available from human epidemiological studies, but studies are in progress. Exposure to dust from this product should be minimized. Based on the animal studies, IARC has classified refractory ceramic fiber a probable carcinogen. This substance or mixture has not been classified a carcinogen by NTR or OSHA. Prolonged exposure to "after service" dust may cause lung disease (silicosis).

WARNING!

POSSIBLE CANCER HAZARD BY INHALATION.

Normal conditions of use and application are not expected to release respirable particulates or airborne fibers.

Reported Human Effects: No human toxicity studies have been carried out with this product.

Prolonged or repeated skin contact may cause irritation.

Direct eye contact may cause irritation.

There is a low order of acute oral and dermal toxicity.

Reported Animal Effects: No animal toxicity studies have been carried out with this product.

SECTION 12 • ECOLOGICAL INFORMATION

Adverse affects of this product on the environment have not been identified.

SECTION 13 • DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incineration is ineffective because product does not burn. 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 regulations. It is the responsibility of the product user to determine at the time of disposal whether a material derived from the product should be classified as a hazardous waste (10CFR 261.20-24).

SECTION 14 • TRANSPORT INFORMATION

UN/NA CODE: N/A
 PROPER SHIPPING NAME: N/A
 HAZARD CLASS: Not regulated.
 DOT INFORMATION: Not regulated.
 LABELS REQUIRED: N/A
 BILL OF LADING DESCRIPTION: Product Name

SECTION 15 • ADDITIONAL REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65: According to the Office of Environmental Health Hazard Assessment (OEHHA), "silica, crystalline (airborne particles of respirable size)" is listed as causing cancer. There is no listing for amorphous silica. While amorphous silica is not on the Prop 65 list, Mid-Mountain believes these fibers could behave similarly to special purpose, high biopersistent, glass wool fibers; therefore, we are providing a Prop 65 warning.

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.

CANADA DSL/NDL: In compliance
 US TSCA: In compliance
 WHMIS classification: Not controlled
 OSHA regulated: Not controlled

State Regulation: Most states list all the ingredients and regulate. For the most current regulatory information please contact the appropriate agencies in the state where the product is to be used.

SECTION 16 • OTHER APPLICABLE INFORMATION

N/A

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
 PNOG 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/cm² micrograms per centimeters squared
 mg/m³ 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



SDS

Safety Data Sheet

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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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