SDS Number: BXM22-D **Revised/Reviewed: 07/07/2016** **Revised From: 07/30/2015**

SECTION 1 ● PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **THERMOSEAL® M22 DRY MOLDABLE**

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

SECTION 2 ● HAZARDS IDENTIFICATION EMERGENCY OVERVIEW

May cause irritation of the respiratory system, eye, and skin.

Possible cancer hazard by inhalation. Contains material which may cause cancer.

If ingested may cause irritation to the gastrointestinal track.

Pre-existing medical conditions including dermatitis, asthma, or chronic lung disease may be aggravated by exposure.

SECTION 3 ● COMPOSITION / INFORMATION ON INGREDIENTS

This is high temperature resistant refractory material, the composition of which is proprietary. All known hazardous ingredients are described as follows.

CHEMICAL / COMMON NAME	CAS No.	%(opt)
Refractories, Fibers, Aluminosilicate	142844-00-6	35 - 85
Polymer / Additives	Proprietary	1 -7

SECTION 4 ● FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air. Drink water to clear throat. Blow nose to evacuate fibers. Get medical attention if irritation persists.

Eyes: Do not rub eyes. Flush with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

Skin: Wash skin gently with soap and water and remove contaminated clothing. Get medical attention if irritation persists. Launder any contaminated clothing thoroughly before reuse.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

SECTION 5 ● FIRE-FIGHTING MEASURES

NFPA Codes:

Flammability: 0 Health: 1 Reactivity: 0 Special: 0

Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Special firefighting procedures: Fire fighters should wear self-contained breathing apparatus.

SECTION 6 ● ACCIDENTAL RELEASE MEASURES

Dust suppressing cleaning methods such as wet sweeping or vacuuming should be used with HEPA filter. Avoid creating airborne dust. Wear protective clothing.

SECTION 7 ● HANDLING AND STORAGE

Storage: Store in original container in a dry area. Keep container closed when not in use.

Handling: Avoid contact with the eyes and skin. Use safety glasses and rubber gloves with adequate local exhaust ventilation with respiratory protection. Wear protective clothing to minimize skin contact. Remove contaminated clothing and clean before reuse. Wash thoroughly after work using soap and water. Keep away from children.

SECTION 8 ● EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Ventilation and other forms of engineering controls are the preferred means for controlling exposures. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MDHS approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations. (see 29 CFR 1910.134,and CFR 1926.103)

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

Eye Protection: Safety glasses with side shields.

Protective Gloves: Polymeric gloves.

General: Avoid skin contact with this material. Barrier creams and long sleeve garments may be used to prevent fibrous matter form contacting exposed skin. Clothing and personal protect equipment should be thoroughly cleaned before reuse.

SECTION 9 ● PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & PHYSICAL STATE: Powder.

COLOR AND ODOR: Pale white, mild odor.

FLASH POINT: None

SPECIFIC GRAVITY: 2.5

V.O.C: 0 lb/gal

SECTION 10 • STABILITY AND REACTIVITY

Stability: Stable under normal conditions use.

Incompatibility (conditions to avoid): Not know.

Hazardous decompositions products: None know

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).

SECTION 12 • ECOLOGICAL INFORMATION

Environmental effects: No know adverse effects.

SECTION 13 • DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state, and federal or provincial regulations. If used or waste product is disposed of testing should be conducted to determine hazard characteristics. Empty containers will have a product residue. Do not reuse.

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

Section 302 Extremely Hazardous Substance (40 CFR 372): None.

Section 304 CERCLA Hazardous Substance (40 CFR 372): None.

Section 311/312 Hazard Class (40 CFR 370): None

Ceramic fibers (airborne particles of respirable size) are listed in **Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986** as a chemical known to the State of California to cause cancer.

Other States: RCF products are not known to be regulated by states other than California; however, state and local OSHA and EPA regulations may apply to these productS. If in doubt, contact your local regulatory agency.

Canadian Workplace Hazardous Materials Information System (WHMIS) - RCF is classified as Class D2A Materials Causing Other Toxic Effects.

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
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

<<< End of SDS >>>