



MATERIAL SAFETY DATA SHEET

Section 1 – Chemical Product / Company Information

Product Name: ISOLATEK™ TYPE M-II **Effective Date:** 6/22/10
Product Use/Class: Spray-Applied Fire Resistive Materials (SFRM) **Supersedes:** 4/20/10
Manufacturer: United States Mineral Products Company **Preparer:** R&D Department
dba Isolatek International
41 Furnace Street
Stanhope, NJ 07874 USA
973-347-1200
**CHEMTREC Transportation
Emergency Phone #:** 703-527-3887

Section 2 – Composition / Information On Ingredients

Chemical Name	CAS Number	Wt. % (Max.)
Portland Cement	65997-15-1	35 - 60
Vermiculite	1318-00-9	10 - 25
MICA	12001-26-2	4 - 15
Calcium Carbonate	1317-65-3	10 - 35
Quartz	014808-60-7	<1

Section 3 – Hazards Identification

Emergency Overview: May cause irritation to the respiratory tract.

Effects of Overexposure – Eye Contact: May cause irritation to the eyes.

Effects of Overexposure – Skin Contact: May cause skin irritation. Prolonged exposure may cause alkali burns.

Effects of Overexposure – Inhalation: May cause irritation to upper respiratory system.

Effects of Overexposure – Ingestion: May cause irritation or burns.

Effects of Overexposure – Chronic Hazards: Dust may cause inflammation of the cornea; dermatitis may occur in sensitive individuals; inhalation over long periods of high dust concentration may overload lung clearance mechanisms & make lungs more vulnerable to disease.

Primary Route(s) of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Medical Conditions Prone to Aggravation by Exposure: Sensitive skin; respiratory conditions.

Section 4 – First Aid Measures

First Aid – Skin Contact: Wash with soap and water. If persistent irritation occurs, seek medical attention.

First Aid – Eye Contact: Flush eyes with clean water for at least 15 minutes. Seek medical attention if irritation persists.

First Aid – Inhalation: Breathe fresh air. Seek medical attention if irritation persists.

First Aid – Ingestion: If swallowed do not induce vomiting. Seek immediate medical attention.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable
Lower Explosive Limit: Not Applicable
Upper Explosive Limit: Not Applicable

NFPA Rating
Health: 0
Flammability: 0
Reactivity: 0

Extinguishing Media: Not Applicable
Unusual Fire & Explosion Hazards: None
Special Firefighting Procedures: None

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Sweep up material and place in disposal containers. Avoid inhalation of dust. Wet material should be treated with an inert absorbent material and placed in disposal containers. Dispose of material in accordance with all federal, state, and local regulations. Use personal protective equipment as necessary.

Section 7 – Handling And Storage

Handling: Avoid inhalation of dust. Avoid skin & eye contact. Wear skin and eye protection during use. Use normal personal hygiene to remove materials, contaminants; wash clothing separately before re-use.

Storage: Keep dry. Keep containers closed when not in use. Store in a cool, dry place with adequate ventilation.

Section 8 – Exposure Controls / Personal Protection

Chemical Name	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL TWA	OSHA-CEIL
Portland Cement	10 mg/m ³	---	5 mg/m ³	---
Vermiculite	---	---	---	---
MICA	3 mg/m ³	---	3 mg/m ³	---
Calcium Carbonate	3 mg/m ³	---	5 mg/m ³	---
Quartz	0.025 mg/m ³ respirable	---	---	---

Engineering Controls: Fans may be necessary to keep nuisance dust levels low.

Respiratory Protection: Wear a NIOSH approved disposable dust mask to prevent exposure above the limits specified.

Skin Protection: Wear gloves and use hand creams to prevent dry skin.

Eye Protection: Wear proper eye protection; at minimum, safety glasses with side shields.

Work / Hygienic Practices: Use bag opening procedures which minimize dust release. Use anti-slip surfaces on working platforms – material is slippery when wet.

Section 9 – Physical And Chemical Properties

Boiling Point (°F): N/A
Appearance & Odor: Grey powder with golden pellets & flakes; no odor.
Vapor Pressure (mm Hg): N/A
Vapor Density (air=1): N/A
Solubility in Water: Negligible
Specific Gravity (H₂O=1): 2.0
Melting Point (°F): >1800°F (981° C)
Evaporation Rate: N/A
Physical State: Solid
% Volatiles: 0
PH: 12-12.5

(See section 16 for abbreviation legend)

Section 10 – Stability And Reactivity

Stability: (under normal conditions):	Stable
Conditions to Avoid:	Contact with strong acids
Incompatibility (Materials to Avoid):	Strong Acids
Hazardous Decomposition Products:	CO,CO ₂
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	N/A

Section 11 – Toxicological Information

Ingredient	CAS Number	LD50 / LC50			NTP		OSHA
		No Data Available			Known	Suspect	
Carcinogenicity		IARC					
		Group 1	Group 2A	Group 2B			
Portland Cement		NO	NO	NO	NO	NO	NO
Vermiculite		NO	NO	NO	NO	NO	NO
MICA		NO	NO	NO	NO	NO	NO
Calcium Carbonate		NO	NO	NO	NO	NO	NO
Quartz		YES	NO	NO	NO	NO	YES

Section 12 – Ecological Information

Ecological Information: No Data Available

Section 13 – Disposal Information

Disposal Information: Non hazardous product. Dispose of waste in accordance with applicable regulations.

Section 14 – Transportation Information

Proper Shipping Name:	Not Applicable
Technical Name:	Not Applicable
Hazard Class:	Non-Hazardous
UN/NA Number:	Not Applicable
Additional Notes:	None

Section 15 – Regulatory Information

CERCLA SARA Section 313

No Section 313 Substances exist in this product.

STATE REGULATIONS:

New Jersey Hazardous Substance List
Contains no listed ingredients.

Pennsylvania Hazardous Substance List
Contains no listed ingredients.

California Proposition 65

Warning: This product contains substances know to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts Hazardous Substance List

Chemical Name: Quartz

CAS #: 014808-60-7

Wt. %: 0.50

INTERNATIONAL REGULATIONS AS FOLLOWS:

Chemical Inventory Status

All chemicals in this product are listed or exempt from listing in the following:

U.S	Canada		Europe		Australia	Korea
TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ECL
Yes	Yes	No	Yes		Yes	Yes

CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations and contains all information required.

CANADIAN WHMIS CLASS: D2A

HMIS Ratings

Health: 1

Flammability: 0

Reactivity: 0

Personal Protection: e

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0

Section 16 – Other Information

Prepared By: Research Department, U.S.A.

Telephone: (973) 347-1200

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