

Health Hazard	1*
Fire Hazard	0
Reactivity	0
Personal Protection	0

HMIS RATING

# MATERIAL SAFETY DATA SHEET (OSHA 29 CFR 1910.1200)



NFPA RATING

Effective Date: NOVEMBER 11, 1999  
Supersedes: FEBRUARY 8, 1999

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## SECTION I - PRODUCT INFORMATION

- MANUFACTURER'S NAME AND ADDRESS:**  
Mandoval  
Division of ISOLATEK INTERNATIONAL/CAFECO INDUSTRIES  
41 Furnace Street  
Stanhope, NJ 07874
- EMERGENCY TELEPHONE NUMBER:**  
973-347-1200
- CHEMICAL NAME AND SYNONYMS**  
Spray-Applied Fire-Resistive Materials (SFRMs)
- CHEMICAL FAMILY:**  
Silicates and Calcium Carbonates
- FORMULA:**  
Blend of Portland Cement and Vermiculite Aggregate
- TRADE NAMES AND SYNONYMS:**  
**FENDOLITE® M-II**

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV-TWA
Powdered Binders & Fillers Nuisance Particulates	N/Ap	Total Dust: 15mg/m <sup>3</sup> Respirable Fraction: 5mg/m <sup>3</sup>	10mg/m <sup>3</sup> 3mg/m <sup>3</sup>
Mica	12001-26-2	20 mppcf	3 mg/m <sup>3</sup>

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

- Boiling Point (°F): N/Ap
- Vapor Pressure (mm Hg): N/Ap
- Vapor Density (Air=1): N/Ap
- Solubility in Water: Negligible
- Specific Gravity (H<sub>2</sub>O=1): 2.0
- Melting Point (°F): >1800° F (981 °C)
- Evaporation Rate (Butyl Acetate = 1): N/Ap
- Appearance and Odor: Gray powder with golden pellets and flakes; no odor.
- Physical State: Solid
- % Volatiles: 0
- pH: 12-12.5

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

- Flash Point (Method used): N/Ap
- Flammable Limits: Noncombustible
- Extinguishing Media: N/Ap
- Special Fire Fighting Procedures: N/Ap
- Unusual Fire and Explosion Hazards: None

## SECTION V - REACTIVITY DATA

- Stability (under normal conditions): Stable  
Conditions to Avoid: Contact with strong acids.
- Incompatibility (Material to Avoid): Strong acids
- Hazardous Decomposition Products: CO, CO<sub>2</sub>
- Hazardous Polymerization: Will not occur  
Conditions to Avoid: N/Ap

NE = Not Established

## SECTION VI - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, skin, ingestion, and eye contact.

Acute: Inhalation: Dry mix may cause irritation to upper respiratory system.  
Skin: When wet, the mix may dry the skin and cause alkali burns.  
Eyes: Dry mix may cause irritation to the eyes.

Chronic: Dust may cause inflammation of the cornea; dermatitis may occur in sensitive individuals. Inhalation over long periods of high contaminants of any dust may overload lung clearance mechanisms and make the lungs more vulnerable to disease.

Carcinogenicity: NTP - No IARC - No OSHA - No

Signs and Symptoms of Exposure: Coughing, drying and cracking of skin, eye irritation.

Medical Conditions Generally Aggravated by Exposure: Skin complaints, respiratory conditions. Any condition, which may be aggravated by mechanical irritants.

Emergency and First Aid Procedures:

Eye Contact: Wash eye out with plenty of clean water, and seek medical attention if irritation persists.  
Skin Contact: Remove and wash with warm, clean water. If persistent irritation occurs (e.g. if allergic to cement) seek medical attention.  
Inhalation: Breath fresh air. If a large amount has been inhaled, or distress is caused, seek medical attention.  
Ingestion: Wash mouth out with water. If a large amount has been swallowed, seek medical attention.

**USE NORMAL PERSONAL HYGIENE AFTER CONTACT TO REMOVE ANY MATERIAL CONTAMINANTS.**

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

- Steps to be taken in case material is released or spilled:  
Sweep up and place in disposal containers. Avoid inhalation of dust.
- Waste Disposal Method: Land Fill - In accordance with local, state, and federal regulations.
- Precautions to be taken in handling and storing:  
Avoid inhalation of dust during use. Avoid skin and eye contact. Use normal personal hygiene to remove material contaminants.

## SECTION VIII - CONTROL MEASURES

- Respiratory Protection: Wear a NIOSH approved dust mask to prevent exposure above the limits specified under Section II.
- Ventilation: Sufficient to maintain dust levels below the limits specified under Section II.
- Protective Gloves: Wear cloth gloves. Hand creams are recommended to prevent drying of skin.
- Eye Protection: Wear proper eye protection.
- Other Protective Equipment: Wear loose fitting long sleeve shirt and pants.
- Work/Hygienic Practices: Use bag opening procedures which minimize dust release. Use anti-slip surfaces on working platforms. THE MIX IS SLIPPERY WHEN WET!

## SECTION IX - PREPARATION INFORMATION

Prepared By: Research Department, U.S.A.  
Telephone: (973) 347-1200  
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