MATERIAL SAFETY DATA SHEET

Section 1 – Chemical Product / Company Information

Product Name: CAFCO® FENDOLITE® M-II™ ISOLATEK® TYPE M-II™
Effective Date: 3/27/12

Product Use/Class: Spray-Applied Fire Resistive Materials (SFRM)
Supersedes: 1/19/12

Manufacturer: United States Mineral Products Company
dba Isolatek International
41 Furnace Street
Stanhope, NJ 07874 USA
973-347-1200

CHEMTREC Transportation
Emergency Phone #: 800-424-9300 / 703-527-3887 (Intl.)

Section 2 – Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Wt. % (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>65997-15-1</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Vermiculite</td>
<td>1318-00-9</td>
<td>15 - 40</td>
</tr>
<tr>
<td>MICA</td>
<td>12001-26-2</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Quartz</td>
<td>014808-60-7</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Section 3 – Hazards Identification

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Emergency Overview: May cause irritation to the respiratory tract.

POTENTIAL EFFECTS OF OVEREXPOSURE
Inhalation: May cause irritation to upper respiratory system.

Skin Contact: May cause skin irritation. Prolonged exposure may cause alkali burns.

Eye Contact: May cause irritation.

Ingestion: May cause irritation or burns.

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.

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

Section 4 – First Aid Measures

First Aid – Skin Contact: Wash affected area with soap and water for at least 15 minutes. If irritation persists, seek medical attention.

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

First Aid – Inhalation: If adverse effects occur, remove to fresh air. If irritation persists, seek medical attention.

First Aid – Ingestion: If swallowed do not induce vomiting. If irritation persists, seek 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV-STEL</th>
<th>OSHA PEL TWA</th>
<th>OSHA-CEIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>10 mg/m³</td>
<td>---</td>
<td>5 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Vermiculite</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>MICA</td>
<td>3 mg/m³</td>
<td>---</td>
<td>3 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>3 mg/m³</td>
<td>---</td>
<td>5 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Quartz</td>
<td>0.025 mg/m³</td>
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<td>---</td>
</tr>
</tbody>
</table>

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

Respiratory Protection: Wear a NIOSH approved disposable dust mask (N-95, or equivalent) to prevent exposure above the limits specified.

Skin Protection: Wear gloves and use hand creams to prevent dry skin. Wear long sleeve shirt and pants. Wash work clothes separately from other garments.

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, CO₂
Hazardous Polymerization: Will not occur
Conditions to Avoid: N/A

Section 11 – Toxicological Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>LD50 / LC50</th>
<th>IARC</th>
<th>Group 1</th>
<th>Group 2A</th>
<th>Group 2B</th>
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<th>Known</th>
<th>Suspect</th>
<th>OSHA</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Vermiculite</td>
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<tr>
<td>MICA</td>
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<td>NO</td>
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<tr>
<td>Calcium Carbonate</td>
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<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
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</table>

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
Contains no Section 313 substances.

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 chemicals known to the State of California to cause cancer, birth defects and 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:

<table>
<thead>
<tr>
<th>U.S.</th>
<th>Canada</th>
<th>Europe</th>
<th>Australia</th>
<th>Korea</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>DSL</td>
<td>NDSL</td>
<td>EINECS</td>
<td>ELINCS</td>
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<tr>
<td>Yes</td>
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<td>No</td>
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</tbody>
</table>

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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