



## MATERIAL SAFETY DATA SHEET

### Section 1 – Chemical Product / Company Information

**Product Name:** CAFCO® 400  
ISOLATEK® TYPE 400

**Effective Date:** 2/28/2013

**Product Use/Class:** Spray-Applied Fire Resistive Materials (SFRM)

**Supersedes:** 12/18/2009

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

**Preparer:** R&D Department

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

### Section 2 – Composition / Information On Ingredients

Chemical Name	CAS Number	Wt. % (Max.)
Portland Cement	65997-15-1	40 - 70
Vermiculite	1318-00-9	15 - 40
Calcium Carbonate	1317-65-3	10 - 30
Quartz	014808-60-7	<1

### Section 3 – Hazards Identification

**NFPA Ratings:** Health: 1 Fire: 0 Reactivity: 0  
**Hazard Scale:** 0 = Minima, 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

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

**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 (H<sub>2</sub>O=1): >1.0  
Melting Point (°F): >1800°F (981° C)  
Evaporation Rate: N/A  
Physical State: Solid  
% Volatiles: 0  
PH: 10-13

## 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 <sub>2</sub>
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	N/A

## Section 11 – Toxicological Information

<u>Ingredient</u>	<u>CAS Number</u>	<u>LD50 / LC50</u>			<u>NTP</u>		<u>OSHA</u>
-	-	No Data Available			Known	Suspect	
<u>Carcinogenicity</u>	<u>IARC</u>	Group 1	Group 2A	Group 2B	Known	Suspect	<u>OSHA</u>
Portland Cement	NO	NO	NO	NO	NO	NO	NO
Vermiculite	NO	NO	NO	NO	NO	NO	NO
Calcium Carbonate	NO	NO	NO	NO	NO	NO	NO
Quartz	YES	NO	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  
 Contains no Section 313 substances.

### STATE REGULATIONS:

	Ingredient	CAS NUMBER	State Hazardous Substance List				
			CA	MA	MN	NJ	PA
U.S. State Regulations	Portland Cement	65997-15-1	No	No	No	No	Yes
	Vermiculite	1318-00-9	n/a	n/a	n/a	n/a	n/a
	Calcium Carbonate	1317-65-3	No	No	No	No	No
	Quartz	14808-60-7	Yes	Yes	Yes	Yes	n/a

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:

<b>U.S</b>	<b>Canada</b>		<b>Europe</b>		<b>Australia</b>	<b>Korea</b>
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**

<b>Section 16 – Other Information</b>
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**Prepared By: Research Department, U.S.A.**

**Telephone: (973) 347-1200**

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**Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risks in his use of the material.**