



## MATERIAL SAFETY DATA SHEET

### Section 1 – Chemical Product / Company Information

**Product Name:** CAFCO® 304™  
ISOLATEK® TYPE 304™ **Effective Date:** 11/29/12

**Product Use/Class:** Spray-Applied Fire Resistive Materials (SFRM) **Supersedes:** 12/28/09

**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 #:** 800-424-9300 / 703-527-3887 (Int'l)

### Section 2 – Composition / Information On Ingredients

Chemical Name	CAS Number	Wt. % (Max.)
Calcium Sulfate, Hemihydrate	26499-65-0	50 - 75
Vermiculite	1318-00-9	25 - 45
Cellulose	065996-61-4	1 - 10
Calcium Carbonate	1317-65-3	1 - 10
Quartz	014808-60-7	0 - 5

### Section 3 – Hazards Identification

**Emergency Overview:** A granular powder that poses little immediate hazard. However, components may contain trace amounts of crystalline silica (quartz). Prolonged exposure to respirable crystalline silica (quartz) may cause cancer.

**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 gastro – intestinal irritation.

**Effects of Overexposure – Chronic Hazards:** Dust may cause inflammation of the cornea. Dermatitis may occur in sensitive individuals. Inhalation over long periods may overload lung clearance mechanisms; make lungs more vulnerable to disease. Prolonged inhalation of respirable crystalline silica may result in lung disease (silicosis, lung cancer).

**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: 1  
Flammability: 0  
Reactivity: 0

Extinguishing Media: Not Applicable. Product will not burn.  
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	CAS Number	Exposure Limits (8-hour TWA) (mg/m <sup>3</sup> )			
		OSHA PEL	ACGIH TLV	NIOSH	Mexico
Calcium Sulfate, Hemihydrate	26499-65-0	15 (T), 5 (R)	10 (R)	10 (T), 5 (R)	10 (R)
Calcium Carbonate	1317-65-3	15 (T), 5 (R)	n/a	10 (T), 5 (R)	10 (R)
Quartz	14808-60-7	30 (T), 10 (R)	0.025 (R)	0.05 (R)	0.10 (R)
		(T) - Total (R) - Respirable			

**Engineering Controls:** Fans may be necessary to control nuisance dust levels.

**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.

**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: Light grey or tan, granular powder; low 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  
Melting Point (°F): >1800°F (981° C)  
Evaporation Rate: N/A  
Physical State: Solid  
% Volatiles: 0  
PH: 8 - 11

## 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>					
		No Data Available					
		<u>IARC</u>			<u>NTP</u>		<u>OSHA</u>
<u>Carcinogenicity</u>		Group 1	Group 2A	Group 2B	Known	Suspect	
Calcium Sulfate, Hemihydrate		NO	NO	NO	NO	NO	NO
Vermiculite		NO	NO	NO	NO	NO	NO
Cellulose		NO	NO	NO	NO	NO	NO
Calcium Carbonate		NO	NO	NO	NO	NO	NO
Glass Fiber		NO	NO	NO	NO	NO	NO
Quartz		YES	NO	NO	YES	NO	YES

## Section 12 – Ecological Information

**Ecological Information:** No Data Available

## Section 13 – Disposal Information

**Disposal Information:** Non hazardous product (U.S. (EPA, 40 CFR 261). Dispose of waste in accordance with applicable regulations.

## Section 14 – Transportation Information

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

## Section 15 – Regulatory Information

U.S. Federal Regulations SARA 311/312	Immediate Health (Acute)	Delayed Health (Chronic)	FIRE	PRESSURE	REACTIVE
	No	Yes	No	No	No

U.S. State Regulations	CAS NUMBER	State Hazardous Substance List					
		CA	MA	MN	NJ	PA	RI
	26499-65-0	No	No	No	No	No	No
	1317-65-3	No	No	No	No	No	No
	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

### California Proposition 65

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

**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

**Section 16 – Other Information**

**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.**