



Section 1 – Chemical Product / Company Information

Product Name: ISOLATEK® Type 400 **Effective Date:** March 26, 2015

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

Manufacturer: United States Mineral Products Company **Preparer:** R&D Department
 dba Isolatek International
 41 Furnace Street
 Stanhope, NJ 07874 USA
 (973)-347-1200

In Case of Emergency Call: CHEMTREC **Supersedes:** October 28, 2014

800.424.9300 (USA) +1 703.527.3887 (Int'l)

Section 2 – Hazards Identification

GHS Classification:	Hazard Category	Route of Exposure
Hazard Class		
Skin Irritation	2	Skin
Skin Sensitizer	1	Skin
Eye Irritation	2B	Eye
Inhalation Toxicity	4	Nose/Mouth

Global Harmonization Labeling and Classification:

Signal word: Warning

Hazard Symbol(s): GHS07



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.

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

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

Hazard Statements:	
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H320	Causes eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:	
P202	Do not handle until safety precautions have been read and understood.
P261	Avoid breathing dust/ fumes/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P402+P403	Store in a dry place. Store in a well ventilated place.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Response:	
P301+P330 P331+P312	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell.
P302+P352+ P332+P313+ P363	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
P304+P340+ P342+P313	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/ attention.
P305+P351+ P338+P337+ P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Storage:	
P402+P403+ P232	Store in a dry place. Store in a well ventilated place. Protect from moisture.

Disposal:	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations (see section 13).

Section 3 – Composition / Information On Ingredients

Chemical Name	CAS Number	Wt. % (Max.)
Portland Cement	65997-15-1	40 - 70
Vermiculite	1318-00-9	15 - 35
Cellulose	065996-61-4	1 - 10
Calcium Carbonate	1317-65-3	5 - 10
Quartz	014808-60-7	<1

Section 4 – First Aid Measures

General – If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

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

First Aid – Eye Contact: Flush eyes thoroughly with copious amounts of water. Seek medical attention if irritation persists.

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

First Aid – Ingestion: Do not induce vomiting. Rinse mouth out with water. Seek medical attention if irritation persists.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Section 5 – Fire Fighting Measures

Extinguishing Media: Not Applicable. Product will not burn.

Unusual Fire & Explosion Hazards: None unless noted below in Section 6.

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. Dispose of material in accordance with all federal, state, and local regulations. Use personal protective equipment as necessary.

Section 7 – Handling And Storage

Precautions for safe 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.

Conditions for safe 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

Permissible Exposure Limits

Chemical Name	CAS Number	OSHA PEL	ACGIH TLV	NIOSH	Mexico
Portland Cement	65997-15-1	15 mg/m ³ TWA (Total Dust)	10 mg/m ³ TWA (Chemical is a particulate matter containing no asbestos and <1% crystalline silica.	10 mg/m ³ TWA (Total Dust)	N/A
Vermiculite	1318-00-9	N/A	10mg/m ³ (Total Dust) 3 mg/m ³ (Respirable Fraction)	0.05 mg/m ³	-
Cellulose	065996-61-4	N/A	N/A	N/A	N/A
Calcium Carbonate	1317-65-3	15 mg/m ³ TWA (Total Dust) 5 mg/m ³ (Respirable Fraction)	N/A	10 mg/m ³ TWA (Total Dust) 5 mg/m ³ (Respirable Fraction)	10 (Respirable Fraction)
Quartz	14808-60-7	30 mg/m ³ %SiO ₂ +2 (Total Dust) 250 mppcf %SiO ₂ +5 (Respirable) 10 mg/m ³ %SiO ₂ +2 (Respirable Fraction)	0.025 mg/m ³ TWA (Respirable Fraction)	0.05 mg/m ³ TWA (Total Dust) 0.05 mg/m ³ TWA (Respirable Fraction)	0.010mg/m ³ TWA (Total Dust)

Engineering Controls: Exhaust fans may be necessary when mixing in enclosed areas.

Respiratory Protection: Wear a proper 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

Appearance:	Grey powder with golden pellets and flakes
Odor:	Low odor
pH:	10-13
Melting Point (°F):	>1800°F (981°C)
Boiling Point (°F):	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability:	Not Applicable
Lower Explosive Limit:	Not Applicable
Upper Explosive Limit:	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Bulk Density (kg/mm3)	Not Applicable
Solubility in Water:	Low
Specific Gravity (H₂O=1):	Not Applicable
Physical State:	Solid
% Volatiles:	Not Applicable
Viscosity	Not Applicable
Auto ignition temperature	Not Applicable

Section 10 – Stability And Reactivity

Chemical Stability (under normal conditions):	Stable
Possibility of Hazardous Reactions:	No
Conditions to Avoid:	Contact with strong acids
Incompatibility:	Strong Acids
Hazardous Decomposition Products:	Stable under normal conditions. Trace amounts of carbon and nitrogen oxide compounds may release under fire.
Hazardous Polymerization:	No polymerization will occur

Section 11 – Toxicological Information

Carcinogenicity	IARC			NTP		OSHA	LD50/LC50
	Group 1	Group 2A	Group 2B	Known	Suspect		
Portland Cement	No	No	No	No	No	No	No Data Available
Vermiculite	No	No	No	No	No	No	No Data Available
Cellulose	No	No	No	No	No	No	No Data Available
Calcium Carbonate	No	No	No	No	No	No	No Data Available
Quartz	Yes	No	No	Yes	No	Yes	No Data Available

Section 12 – Ecological Information

Ecological Information: No data available.

Section 13 – Disposal Considerations

Disposal Information: For waste disposal purposes, this product is not known to be designated as hazardous by current provisions under RCRA. Dispose of in accordance with federal, state and local 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

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	State Hazardous Substance List						
	CAS Number	CA	MA	MN	NJ	PA	RI
	65997-15-1	No	No	No	No	No	No
	1318-00-9	No	No	No	No	No	No
	065996-61-4	No	No	No	No	No	No
	1317-65-3	No	No	No	No	No	No
	14808-60-7	Yes	Yes	Yes	Yes	No	Yes

INTERNATIONAL REGULATIONS AS FOLLOWS:

Chemical Inventory Status

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

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

CANADIAN WHMIS

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

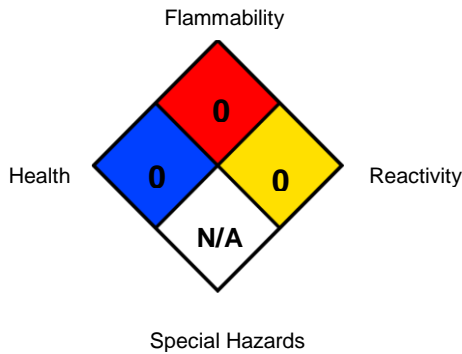
CANADIAN WHMIS CLASS: D2A

HMIS Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	e

Section 16 – Other Information

NFPA



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.