



### Section 1 – Chemical Product / Company Information

**Product Name:** ISOLATEK® HEAT-SHIELD® **Effective Date:** October 6, 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:** December 15, 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** This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. As product may contain trace amount of crystalline silica, prolonged exposure to respirable crystalline silica 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:	
<b>H303</b>	May be harmful if swallowed.
<b>H313</b>	May be harmful in contact with skin.
<b>H320</b>	Causes eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.

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

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

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

<b>Disposal:</b>	
<b>P501</b>	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.)
Slag Wool	65997-17-3	60 - 95
Portland Cement	65997-15-1	1 – 10
Crystalline Silica	14808-60-7	<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.

**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
Slag Wool	65997-17-3	15 mg/m <sup>3</sup> TWA (Total Dust) 5 mg/m <sup>3</sup> (Respirable Fraction)	1 f/cc TWA	5 mg/m <sup>3</sup> TWA (Total Dust)	N/E
Portland Cement	65997-15-1	15 mg/m <sup>3</sup> TWA (Total Dust)	10 mg/m <sup>3</sup> TWA (Chemical is a particulate matter containing no asbestos and <1% crystalline silica.	10 mg/m <sup>3</sup> TWA (Total Dust)	N/E
Crystalline Silica	14808-60-7	30 mg/m <sup>3</sup> %SiO <sub>2</sub> +2 (Total Dust) 250 mppcf %SiO <sub>2</sub> +5 (Respirable) 10 mg/m <sup>3</sup> %SiO <sub>2</sub> +2 (Respirable Fraction)	0.025 mg/m <sup>3</sup> TWA (Respirable Fraction)	0.05 mg/m <sup>3</sup> TWA (Total Dust) 0.05 mg/m <sup>3</sup> TWA (Respirable Fraction)	0.010mg/m <sup>3</sup> 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

<b>Appearance:</b>	White to grey
<b>Odor:</b>	Low odor
<b>pH:</b>	10-13
<b>Melting Point (°F):</b>	>1800°F (981°C)
<b>Boiling Point (°F):</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Applicable
<b>Flammability:</b>	Not Applicable
<b>Lower Explosive Limit:</b>	Not Applicable
<b>Upper Explosive Limit:</b>	Not Applicable
<b>Vapor Pressure (mm Hg):</b>	Not Applicable
<b>Bulk Density (kg/mm3)</b>	Not Applicable
<b>Solubility in Water:</b>	Low
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not Applicable
<b>Physical State:</b>	Solid
<b>% Volatiles:</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Auto ignition temperature</b>	Not Applicable

## Section 10 – Stability And Reactivity

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

## Section 11 – Toxicological Information

Carcinogenicity	IARC			NTP		OSHA	LD50/LC50
	Group 1	Group 2	Group 3	Known	Suspect		
Slag Wool	No	No	Yes (not classifiable as to human carcinogenicity)	No	No	No	No Data Available
Portland Cement	No	No	No	No	No	No	No Data Available
Crystalline Silica	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
	65997-17-3	No	No	No	No	No	No
	65997-15-1	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

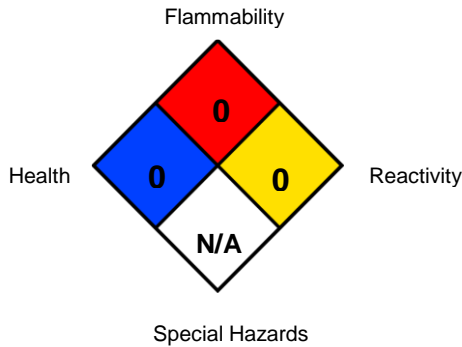
### HMIS Rating

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>e</b>

**Section 16 – Other Information**

N/E – Non Established  
N/A – Not Applicable

**NFPA:**



Prepared By: Research Department, U.S.A.  
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