

SAFETY DATA SHEET

Section 1 – Chemical Product / Company Information

Product Name: CAFCO® BLAZE-SHIELD®,
CAFCO BLAZE-SHIELD WHITE,
CAFCO BLAZE-SHIELD CHARCOAL,
CAFCO BLAZE-SHIELD II, CAFCO BLAZE-SHIELD II WHITE,
CAFCO BLAZE-SHIELD II CHARCOAL,
CAFCO BLAZE-SHIELD HP, CAFCO BLAZE-SHIELD HP WHITE,
CAFCO BLAZE-SHIELD HP CHARCOAL

Effective Date: August 19, 2014

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

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

Preparer: R&D Department

In Case of Emergency Call: CHEMTREC
(800)-424-9300 (USA) (703)-527-3887 (Int'l)

Supersedes: July 10, 2014

Section 2 – Hazards Identification

GHS Classification:

| Hazard Class | Hazard Category | Route of Exposure |
|---------------------|-----------------|-------------------|
| Skin Irritation | 2 | Skin |
| Skin Sensitizer | 1 | Skin |
| Eye Irritation | 2B | Eye |
| Inhalation Toxicity | 4 | Nose/Mouth |

GHS Labeling:

Contains: Slag Wool (CAS 65997-17-3), Portland Cement (CAS 65997-15-1), Calcium Sulfate (CAS 26499-65-0), Quartz (CAS 14808-60-7)

Signal word: Warning



Symbol(s):

Hazard statements:

Causes skin irritation
May cause an allergic skin reaction
Causes eye irritation
Harmful if inhaled

Precautionary statements:

Wash thoroughly after handling
Wear protective gloves
Avoid breathing dust
Use only outdoors or in well-ventilated area

Section 2 – Hazards Identification

Response:

If in eyes: rinse copiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: get medical advice/attention
If on skin: wash with plenty of water and soap
If skin irritation persists: get medical attention
Take off contaminated clothing and wash before reuse
If inhaled: remove person to fresh air and keep comfortable for breathing

Storage:

Keep container tightly sealed and in a well ventilated place

Disposal:

Disposal 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 | 50 - 80 |
| Portland Cement | 65997-15-1 | 20 – 30 |
| Calcium Sulfate Hemihydrate | 26499-65-0 | 5 - 10 |
| Quartz | 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 water for at least 5 minutes. Seek medical attention if irritation persists.

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

First Aid – Ingestion: If swallowed do not induce vomiting. Rinse mouth out with water. Seek immediate medical attention.

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

Section 5 – Fire Fighting Measures

Extinguishing Media: Use a water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards: Product is not considered a fire hazard but will burn if ignited. Closed container may rupture (due to build up of pressure) when exposed to extreme heat. Irritating or toxic substances may be emitted upon burning, combustion or decomposition.

Special Firefighting Procedures: Wear positive pressure self-contained NIOSH approved breathing equipment and approved protective equipment.

See section 9 for more details

Section 6 – Accidental Release Measures

Personal precautions, Protective Equipment, and Emergency Response:

Use personal protective equipment as recommended in section 8. If spilled in an enclosed area, ventilate.

Environmental precautions: This product contains component that are hazardous to aquatic life. Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers.

Methods and materials for containment and cleaning up:

Sweep up material and place in disposal containers. 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

Precautions for safe handling: When working with any chemical product, use good workplace procedures. Do not cut, puncture, or weld on or near the container. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well ventilated conditions. Avoid skin and eye contact. Avoid inhalation of dust, mist, spray, fume or vapor. Avoid drinking tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse.

Conditions for safe storage: Keep away from heat, sparks, and open flames. Store in cool, dry place with adequate ventilation. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container.

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 ³ TWA (Total Dust) 5 mg/m ³ (Respirable Fraction) | 1 f/cc TWA | 5 mg/m ³ TWA (Total Dust) | N/A |
| 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 |
| Calcium Sulfate, Hemihydrate | 26499-65-0 | 15 mg/m ³ TWA (Total Dust) 5 mg/m ³ (Respirable Fraction) | 15 mg/m ³ TWA (Chemical is a particulate matter containing no asbestos and <1% crystalline silica. | 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) | .010mg/m ³ TWA (Total Dust) |

Engineering Controls: Mechanically exhaust vapors at appropriate times in application of product.

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: | White to Charcoal |
| Odor: | Low Odor |
| PH: | N/A |
| Melting Point (°F): | >1800°F (981° C) |
| Boiling Point (°F): | N/A |
| Flash Point: | N/A |
| Evaporation Rate: | N/A |
| Flammability: | N/A |
| Lower Explosive Limit: | N/A |
| Upper Explosive Limit: | N/A |
| Vapor Pressure (mm Hg): | N/A |
| Relative Density (kg/mm3) | N/A |
| Solubility in Water: | Negligible |
| Specific Gravity (H₂O=1): | N/A |
| Physical State: | Solid |
| % Volatiles: | 0l |
| Viscosity | N/A |
| Auto ignition temperature | N/A |

Section 10 – Stability And Reactivity

| | |
|--|---|
| Chemical Stability (under normal conditions): | Stable |
| Possibility of hazardous reactions: | None |
| Conditions to Avoid: | Excessive heat. Strong oxidizer. |
| Incompatibility: | Strong Acids, bases, and oxidizing agents. Avoid contact with amines. |
| Hazardous Decomposition Products: | Thermal decomposition may produce smoke, carbon monoxide (CO), carbon dioxide (CO ₂), aldehydes, and other products of incomplete combustion. |
| Hazardous Polymerization: | No hazardous polymerization will occur under normal conditions. |

Section 11 – Toxicological Information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of personal protective equipment and handling procedures to minimize exposure.

Eyes: May cause eye irritation.

Skin: May cause allergic skin reaction. Causes skin irritation.

Inhalation: High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

Ingestion: Not likely route of exposure but ingestion may cause irritation

| Carcinogenicity | IARC | | | NTP | | OSHA |
|------------------------------|---------|----------|----------|-------|---------|------|
| | Group 1 | Group 2A | Group 2B | Known | Suspect | |
| Slag Wool | No | Possible | No | No | No | No |
| Portland Cement | No | No | No | No | No | No |
| Calcium Sulfate, Hemihydrate | No | No | No | No | No | No |
| Quartz | Yes | No | No | Yes | No | Yes |

Chronic effects – For this category no toxicological test data is available for the whole product.

Carcinogenicity - For this category no toxicological test data is available for the whole product.

Mutagenicity - For this category no toxicological test data is available for the whole product.

Teratogenicity - For this category no toxicological test data is available for the whole product.

Developmental effects - For this category no toxicological test data is available for the whole product.

Fertility effects - For this category no toxicological test data is available for the whole product.

Target organs – For this category no toxicological test data is available for the whole product.

Section 12 – Ecological Information

Ecological Information: No ecological testing has been conducted on this product.

Persistence and degradability: N/E

Bioaccumulative potential: N/E

Mobility in soil: N/E

Section 13 – Disposal Considerations

Disposal Information: For waste disposal purposes, this product is not known to be designated as hazardous by current provisions of RCRA. Incinerate waste products in a properly permitted incineration facility in accordance with federal, state, and local regulations. Liquids cannot be disposed of in a landfill. Federal, state and local regulations where the waste material is generated, treated, and/or disposed of must be examined to verify the appropriate waste classification.

Section 14 – Transportation Information

Proper Shipping Name: Not regulated – See Bill of Lading for details

Technical Name: Not regulated

Hazard Class: Non-Hazardous

UN/NA Number: Not regulated

Additional Notes: None

Section 15 – Regulatory Information

US Regulations

HCS Classification Irritating material, Sensitizing material

SARA 313 - Supplier Notification None known

| | | | | | |
|--|-------------------------------------|-------------------------------------|-------------|-----------------|-----------------|
| 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 |
| | 65997-17-3 | No | No | No | No | No | No |
| | 65997-15-1 | No | No | No | No | No | No |
| | 26499-65-0 | No | No | No | No | No | No |
| | 14808-60-7 | Yes | Yes | Yes | Yes | No | Yes |

U.S. State Regulations

California Proposition 65

Warning: This product contains substances know 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:

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

Section 15 – Regulatory Information

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 | <input type="checkbox"/> |
| FLAMMABILITY | <input type="checkbox"/> |
| REACTIVITY | <input type="checkbox"/> |
| PERSONAL PROTECTION | <input type="checkbox"/> |

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0

Section 16 – Other Information

N/E – Non Established

N/A – Not Applicable

NFPA Rating



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

Telephone: (973) 347-1200

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