This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<table>
<thead>
<tr>
<th>GHS product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® II</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® II WHITE</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® II CHARCOAL</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® DC/F</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® DC/F WHITE</td>
</tr>
<tr>
<td>CAFCO® BLAZE-SHIELD® DC/F CHARCOAL</td>
</tr>
</tbody>
</table>

Other means of identification

Synonyms

None

Recommended use of the chemical and restrictions on use

Recommended Use

Spray-Applied Fire Resistive Materials

Uses advised against

FOR PROFESSIONAL USE ONLY

Supplier's details

Canada Supplier’s Address

Cafco Industries Inc.
151 Nasdene Road, Unit 12
Scarborough, Ontario M1V 2T3
Toll Free: 888-873-0003

Manufacturer and U.S. Supplier’s Address

United States Mineral Products Company dba Isolatek International
41 Furnace Street
Stanhope, NJ 07874
Toll Free: 800-631-9600

Emergency telephone number

Chemical Emergency Phone Number

CHEMTREC 800 424 9300 (USA), +1 703 527 3887 (International)

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
</tr>
<tr>
<td>Skin Sensitization</td>
</tr>
</tbody>
</table>
Carcinogenicity Category 1A
Specific Target Organ Systemic Toxicity (Single Exposure) Category 3

**Label Elements**

**Signal Word**
Danger

**Hazard Statements**
Causes severe skin burns and eye damage
May cause an allergic skin reaction
May cause cancer
May cause respiratory irritation

**Physical and Health Hazards Not Otherwise Classified**
Not applicable.

**Precautionary Statements**

**Prevention**
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**
- Immediately call a POISON CENTER or doctor/physician.

**Eyes**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

**Skin**
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
• Store in a dry place

Disposal
• Dispose of contents/container in accordance with local regulation

Other information
Harmful to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slag wool</td>
<td>65997-17-3</td>
<td>50 - 70</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cement, Portland</td>
<td>65997-15-1</td>
<td>15 - 30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated middle</td>
<td>64742-46-7</td>
<td>0 - 5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Quartz, (SiO$_2$)</td>
<td>14808-60-7</td>
<td>0 - 0.1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures
Eye Contact  Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

Skin Contact  Wash off immediately with plenty of water. In the case of skin irritation or allergic reactions see a physician. Remove and wash contaminated clothing before re-use.

Inhalation  Move to fresh air. If symptoms persist, call a physician.

Ingestion  Rinse mouth. Drink plenty of water.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects  Burning.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media  Do NOT use water jet

Specific Hazards Arising from the Chemical  No information available.
Explosion Data

Sensitivity to Mechanical Impact
None.

Sensitivity to Static Discharge
None.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Environmental Precautions
Avoid release to the environment. Dispose of contents/container in accordance with local regulation See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment
Prevent further spillage if safe to do so and properly trained. Avoid breathing dust. Avoid creating dusty conditions and prevent wind dispersal.

Methods for Cleaning Up
Avoid dust formation. Do not dry sweep. Pick-up spillage. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Avoid dust formation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Once container is opened, use entire contents at once.

Incompatible Products
Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slag wool 65997-17-3</td>
<td>TWA: 1 fiber/cm³ respirable fibers: length &gt;5 µm, aspect ratio &gt;=3.1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast</td>
<td>TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction</td>
<td>TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Substance</td>
<td>TWA: 1 mg/m³ particulate matter containing no asbestos and &lt;1% crystalline silica, respirable particulate matter</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction TWA: 50 mppcf &lt;1% Crystalline silica</td>
<td>IDLH: 5000 mg/m³ TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Cement, Portland 65997-15-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Sulfate Hemihydrate 26499-65-0</td>
<td>TWA: 10 mg/m³ inhalable particulate matter</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction TWA: 5 mg/m³ respirable fraction</td>
<td>TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Bentonite 1302-78-9</td>
<td>TWA: 1 mg/m³ respirable particulate matter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz, (SiO₂) 14808-60-7</td>
<td>TWA: 0.025 mg/m³ respirable particulate matter</td>
<td>30/(%SiO₂+2) mg/m³ TWA, Total Dust; 250/(%SiO₂+5) mppcf TWA, respirable fraction; 10/(%SiO₂+2) mg/m³ TWA, respirable TWA: 0.1 mg/m³ (vacated)</td>
<td>IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering Measures**
- Showers
- Eyewash stations
- Exhaust Fans/Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**
- Tightly fitting safety goggles with side shields.

**Skin and Body Protection**
- Wear protective gloves/clothing. Impervious gloves.

**Respiratory Protection**
- If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**
- Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid, Powder.</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Low.</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White to Charcoal.</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>11.5 - 12.5</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>981 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Low</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammable Properties</td>
<td>Not flammable</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

Other information

Actual VOC (lb/gal) 0.0

10. STABILITY AND REACTIVITY

Reactivity No data available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

Incompatible materials Oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

Product Information

Inhalation
May cause irritation of respiratory tract.

Eye Contact
Severely irritating to eyes. May cause irreversible damage to eyes.

Skin Contact
Contact causes severe skin irritation and possible burns. May cause sensitization by skin contact.

Ingestion
May cause irritation

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
Redness. Irritation. Allergic skin reactions or irritation. May cause irritation to the respiratory system.

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization
May cause sensitization by skin contact.

Germ Cell Mutagenicity
No information available

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slag wool</td>
<td></td>
<td>Group 3</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Quartz, (SiO₂)</td>
<td>A2</td>
<td>Group 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reproductive Toxicity
No information available

STOT - single exposure
May cause respiratory irritation.

STOT - repeated exposure
No information available

Aspiration Hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sulfate Hemihydrate 26499-65-0</td>
<td>LC50 96 h: ≥ 2980 mg/L (static, Lepomis macrochirus)</td>
<td>LC50 96 h: &gt; 1970 mg/L (Pimephales promelas)</td>
<td>EC50 120 h: = 3200 mg/L (Nitschieria linearis)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated middle 64742-46-7</td>
<td>LC50: 35 mg/L, Pimephales promelas 96 h flow-through</td>
<td>LC50: &gt;10000 mg/L, Pimephales promelas 96 h static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentonite 1302-78-9</td>
<td>LC50 96 h: 8.0-19.0 g/L (Salmo gairdneri)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LC50 96 h: = 19000 mg/L static (Oncorhynchus mykiss)

Persistence and Degradability
No information available

Bioaccumulation
No information available

Mobility
No information available

Other Adverse Effects
No information available.

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with local regulations.

Contaminated Packaging
Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

**DOT**
Not regulated

**TDG**
Not regulated

**MEX**
Not regulated

**IATA**
Not regulated

**IMDG/IMO**
Not regulated

### 15. REGULATORY INFORMATION

**International Regulations**

Ozone depleting substances
Not applicable

Persistent Organic Pollutants
Not applicable

Hazardous Waste
Dispose of in accordance with local regulations.

The Rotterdam Convention (Prior Informed Consent)
Not applicable

International Convention for the Prevention of Pollution from Ships (MARPOL)
Not applicable

**International Inventories**

TSCA
Complies

DSL/NDSL
Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**
This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plaster of paris</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2*</td>
<td>0</td>
<td></td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date
02-May-2018

Revision Date
02-May-2018

Revision Note
No information available.

General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet