Section 1 – Chemical Product / Company Information

Product Name: ISOLATEK® Type WB 3/ WB 3 TG  
Effective Date: April 22, 2015

Product Use/Class: Fireproofing coating

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

Preparer: R&D Department

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

Section 2 – Hazards Identification

GHS Classification:

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Hazard Category</th>
<th>Route of Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation</td>
<td>2</td>
<td>Skin</td>
</tr>
<tr>
<td>Skin Sensitizer</td>
<td>1</td>
<td>Skin</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>2B</td>
<td>Eye</td>
</tr>
<tr>
<td>Inhalation Toxicity</td>
<td>4</td>
<td>Nose/Mouth</td>
</tr>
</tbody>
</table>

Global Harmonization Labeling and Classification:

Signal word: Warning

Hazard Symbol(s): GHS07

Overview: A thick liquid that poses little immediate hazard.

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:

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H303</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>H313</td>
<td>May be harmful in contact with skin.</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>
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.
P403+235  Store in a well ventilated place. Keep cool.
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+
P404+P410+
P411  Store in a dry place. Store in a well ventilated place. Store in a closed container. Protect from sunlight. Store at temperatures not exceeding 38°C/ 100°F.

Disposal:

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

Section 3 – Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Polyphosphate</td>
<td>68333-79-9</td>
<td>15-35</td>
</tr>
<tr>
<td>Pentaerythritol</td>
<td>115-77-5</td>
<td>7-13</td>
</tr>
<tr>
<td>Melamine</td>
<td>108-78-1</td>
<td>7-13</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>7-13</td>
</tr>
<tr>
<td>Glass wool fiber</td>
<td>65997-17-3</td>
<td>7-13</td>
</tr>
<tr>
<td>Aluminum Trihydroxide</td>
<td>21645-51-2</td>
<td>3-7</td>
</tr>
<tr>
<td>Ethylene Glycol, Butyl Ether</td>
<td>111-76-2</td>
<td>1-5</td>
</tr>
</tbody>
</table>
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: If swallowed do not induce vomiting. Rinse mouth out with water. If Irritation persists seek medical attention.

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

Section 5 – Fire Fighting Measures

Extinguishing Media: NFPA non-combustible liquid: ABC dry chemical, foam or carbon dioxide.

Unusual Fire & Explosion Hazards: Product is not considered a fire hazard. 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 (including but not limited to ammonia gas, nitrogen oxide, titanium oxide, and phosphorous oxide gases).

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

Section 6 – Accidental Release Measures

Personal precautions, Protective Equipment, and Emergency Response: Use personal protective equipment as recommended in section 8.

Methods and materials for containment and cleaning up: If spilled, absorb spill with vermiculite or other inert material (such as sand). Collect up and place in an appropriate container.

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 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. Avoid extreme heat or cold. Store above freezing. 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 containing residual product which may exhibit hazards of product. Do not reuse empty container.
Section 8 – Exposure Controls / Personal Protection

**Permissible Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentaerythritol</td>
<td>115-77-5</td>
<td>15 mg/m³ TWA (total dust)</td>
<td>10 mg/m³ TWA (total dust)</td>
<td>10 mg/m³ TWA (total dust)</td>
<td>10 mg/m³ TWA (as Ti)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³ TWA (respirable</td>
<td></td>
<td>5 mg/m³ TWA (respirable dust)</td>
<td>20 mg/m³ STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fraction)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>15 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>5000 mg/m³ IDLH</td>
<td>10 mg/m³ TWA (as Ti)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20 mg/m³ STEL (as Ti)</td>
</tr>
<tr>
<td>Glass wool fibers</td>
<td>65997-17-3</td>
<td>5 mg/m³ TWA (respirable</td>
<td>1 fiber/cc TWA</td>
<td>5 mg/m³ TWA (total dust)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fraction)</td>
<td></td>
<td>3 fibers/cc TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³ TWA (total dust)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum Trihydroxide</td>
<td>21645-51-2</td>
<td>N/A</td>
<td>1 mg/m³</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ethylene Glycol, Butyl</td>
<td>111-76-2</td>
<td>240 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>24 mg/m³ TWA</td>
<td>120 mg/m³ TWA</td>
</tr>
<tr>
<td>Ether</td>
<td></td>
<td></td>
<td></td>
<td>700 ppm IDLH</td>
<td>360 mg/m³ TWA</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Provide ventilation to ensure compliance with applicable exposure limits

**Respiratory Protection:** A dust mask should be used in cases where the individual is exposed to airborne mists of the material.

**Skin Protection:** Wear cloth, rubber, or latex gloves. Use typical long sleeve work clothing or a “Tyvek” type suit.

**Eye Protection:** Wear proper eye protection; at minimum, safety glasses with side shields.

**Work / Hygienic Practices:** Use proper personal protective equipment. Eye wash stations are recommended in the work area.

Section 9 – Physical And Chemical Properties

- **Appearance:** white liquid
- **Odor:** Mild, solvent
- **pH:** 7-9
- **Melting Point (°F):** Not Applicable
- **Boiling Point (°F):** >210-215°F
- **Flash Point:** >200°F (SCC)
- **Evaporation Rate:** 1 (water=1)
- **Flammability:** Not Applicable
- **Lower Explosive Limit:** Not Applicable
- **Upper Explosive Limit:** Not Applicable
- **Vapor Pressure (mm Hg):** Not Applicable
- **Relative Density (kg/mm3):** Not Applicable
- **Solubility in Water:** Not Applicable
- **Specific Gravity (H₂O=1):** 1.1-1.5
- **Physical State:** white paste
- **% Volatiles:** 26-29%
- **Viscosity:** 20-40K CPS
- **Auto Ignition Temperature:** Not Applicable

Section 10 – Stability And Reactivity

- **Chemical Stability (under normal conditions):** Stable
- **Possibility of Hazardous Reactions:** None
- **Conditions to Avoid:** Avoid high temperatures or freezing. Avoid incompatible materials.
- **Incompatibility:** Strong Acids, bases, and oxidizing agents.
- **Hazardous Decomposition Products:** Thermal decomposition may produce smoke, carbon monoxide (CO), carbon dioxide (CO₂), oxides of titanium, oxides of phosphorous, 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: Causes skin irritation.

Inhalation: High airborne concentrations of mist resulting from spraying may cause irritation of the respiratory tract and mucous membranes.

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

### Carcinogenicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Group 1</td>
<td>Group 2A</td>
<td>Group 2B</td>
</tr>
<tr>
<td>Pentaerythritol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Melamine</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ammonium Polyphosphate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Glass wool fibers</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Aluminum Trihydroxide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ethylene Glycol, Butyl Ether</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Ethylene Glycol, Butyl Ether – ACGIH Confirmed animal carcinogen with unknown relevance to humans

### Acute toxicity

No toxicity studies have been conducted on this product.

**Titanium dioxide**
- LD50 Oral: Rat >10,000 mg/kg
- LC50 Inhalation: Rat >6.8 mg/L
- LD50 Dermal: Rabbit >10,000 mg/kg

**Melamine**
- LD50 Oral: Rat 3161 mg/kg
- LD50 Dermal: Rabbit >1000 mg/kg

**Ammonium polyphosphate**
- LD50: Rat >2000 mg/kg

**Pentaerythritol**
- LD50 Oral: Rabbit/rat/mouse >18500 mg/kg

**Aluminum Trihydroxide**
- LD50 Oral: Rat >5000 mg/kg

**Ethylene Glycol, Butyl Ether**
- LD50 Oral: Rat 470 mg/kg
- LC50 Inhalation: Rat >2.21 mg/L 4 hrs
- LD50 Dermal: Rabbit 220 mg/kg
- LD50 Dermal: Rat 2270 mg/kg

### 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.

Review Section 2 and 11 for any additional assessments.
Section 12 – Ecological Information

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

Ecotoxicity

Ammonium polyphosphate
Fish (Brachydanio rerio) 96 hour LC50 >500 mg/L

Melamine
Fish (Poecilia reticulata) 96 hour LC50 >3000 mg/L
Invertebrate (Daphnia) 48 hour EC50 >2000 mg/L

Pentaerythritol
Invertebrate (Daphnia) 24 hour EC50 50000 mg/L
Invertebrate (Daphnia) 48 hour EC50 30477-37043 mg/L

Ethylene Glycol, Butyl Ether
Fish (Lepomis macrochirus) 96 hour LC50 2950 mg/L
Invertebrate (Daphnia) 48 hour EC50 1698-1940 mg/L

Persistence and degradability: N/E
Bioaccumulative potential: N/E
Mobility in soil: N/E

Section 13 – Disposal Considerations

Disposal Information: Do not allow the product to enter drains, water courses or the soil. Liquids can not be disposed of in a landfill. Allow liquid material to dry. Dispose of in accordance with federal, state and local regulations.

Section 14 – Transportation Information

Proper Shipping Name: Not regulated – See Bill of Lading for details
Technical Name: Not regulated
Hazard Class: Not regulated
UN/NA Number: Not regulated
Additional Notes: None
Section 15 – Regulatory Information

US Regulations
HCS Classification
Irritating material

SARA 313 - Supplier Notification
None

<table>
<thead>
<tr>
<th>U.S. Federal Regulations</th>
<th>Immediate Health (Acute)</th>
<th>Delayed Health (Chronic)</th>
<th>FIRE</th>
<th>PRESSURE</th>
<th>REACTIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 311/312</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State Hazardous Substance List</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number</td>
</tr>
<tr>
<td>13463-67-7</td>
</tr>
<tr>
<td>115-77-5</td>
</tr>
<tr>
<td>108-78-1</td>
</tr>
<tr>
<td>65997-17-3</td>
</tr>
<tr>
<td>111-76-2</td>
</tr>
</tbody>
</table>

U.S. State Regulations

INTERNATIONAL REGULATIONS AS FOLLOWS:

Chemical Inventory Status

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

<table>
<thead>
<tr>
<th>U.S.</th>
<th>Canada</th>
<th>Europe</th>
<th>Australia</th>
<th>Korea</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>DSL</td>
<td>NDSL</td>
<td>EINECS</td>
<td>ELINCS</td>
</tr>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

CANADIAN WHMIS

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

CANADIAN WHMIS CLASS: D2B

HMIS Ratings

[HEALTH 2]
[FLAMMABILITY 0]
[REACTIVITY 0]
[PERSONAL PROTECTION B]

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0-8g/L
Section 16 – Other Information

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

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.