



Section 1 – Chemical Product / Company Information

Product Name: ISOLATEK® Type WB 4/ WB 4 TG **Effective Date:** April 22, 2015

Product Use/Class: Fireproofing coating

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 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:	
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.
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

Chemical Name	CAS Number	Wt. %
Ammonium Polyphosphate	68333-79-9	15-35
Pentaerythritol	115-77-5	7-13
Melamine	108-78-1	7-13
Titanium Dioxide	13463-67-7	7-13
Glass wool fiber	65997-17-3	7-13
Aluminum Trihydroxide	21645-51-2	3-7
Ethylene Glycol, Butyl Ether	111-76-2	1-5

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

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

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 (CO ₂), 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	IARC			NTP		OSHA
	Group 1	Group 2A	Group 2B	Known	Suspect	
Chemical Name						
Pentaerythritol	No	No	No	No	No	No
Melamine	No	No	No	No	No	No
Ammonium Polyphosphate	No	No	No	No	No	No
Titanium dioxide	No	No	Yes	No	No	No
Glass wool fibers	No	No	No	Yes	No	Yes
Aluminum Trihydroxide	No	No	No	No	No	No
Ethylene Glycol, Butyl Ether	No	No	No	No	No	No

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		>2000mg/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

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

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

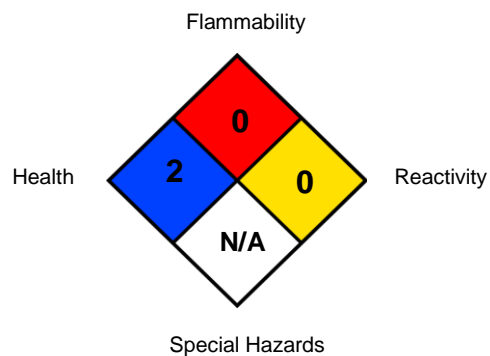
VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0-8g/L

Section 16 – Other Information

N/E – Non Established

N/A – Not Applicable

NFPA



Prepared By: Research Department, U.S.A.
Telephone: (973) 347-1200

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. **VENDOR SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** In no event shall the vendor be liable for special, indirect or consequential damages.

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.