

Issuing Date 30-Sep-2018

Revision date 19-Dec-2018

Revision Number 2

### 1. Identification

#### 1.1. Product identifier

**Product Name** ISOLATEK® Type M-II

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Spray-Applied Fire Resistive Materials

**Uses advised against** Do not use this product for any use other than intended.

#### 1.3. Details of the supplier of the safety data sheet

##### Importer

Isolatek International (Europe) Ltd.  
17 Wellington Street  
Ripley  
DE5 3EH, UK

##### Supplier

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

#### For further information, please contact

**E-mail address** REACH@Isolatek.com

#### 1.4. Emergency telephone number

**Emergency Telephone** CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
France	+(33)-975181407
Germany	+(49)-69643508409
Italy	+(39)-0245557031

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1B - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

#### 2.2. Label elements



Signal word

Danger

#### Hazard statements

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P202 - Do not handle until all safety precautions have been read and understood  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P280 - Wear protective gloves and eye/face protection  
 P284 - Wear respiratory protection  
 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a POISON CENTER or doctor  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P362 - Take off contaminated clothing and wash before reuse  
 P402 + P233 - Store in a dry place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose of contents/containers in accordance with local regulations

#### 2.3. Other hazards

No information available

### 3. Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Portland Cement	266-043-4	65997-15-1	30 - 60	No data available	No data available
Limestone	215-279-6	1317-65-3	10 - 30	No data available	No data available
Vermiculite	603-518-0	1318-00-9	10 - 30	No data available	No data available
Mica	601-648-2	12001-26-2	10 - 30	No data available	No data available

**Full text of H- and EUH-phrases: see section 16**

#### Additional information

The above products are compliant to REACH registration obligations. Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or registered under another regulatory process (biocide uses, plant protection, etc.)

### 4. First-aid measures

#### 4.1. Description of first aid measures

##### General advice

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

<b>Inhalation</b>	Remove to fresh air. (Call a physician if symptoms occur).
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.
<b>Ingestion</b>	Not a normal route of entry. Do not induce vomiting without medical advice. If swallowed and symptoms occur, consult a doctor.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### **4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
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#### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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<b>Unsuitable extinguishing media</b>	No information available.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	May cause sensitization by skin contact.
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### **5.3. Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Take up mechanically, placing in appropriate containers for disposal.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

<b>Reference to other sections</b>	For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.
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## 7. Handling and storage

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.
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### 7.3. Specific end use(s)

<b>Risk Management Methods (RMM)</b>	The information required is contained in this Material Safety Data Sheet.
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## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Portland Cement 65997-15-1	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	-	TWA: 4 mg/m <sup>3</sup>	-
Limestone 1317-65-3	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	-	-	-
Mica 12001-26-2	-	TWA: 10 mg/m <sup>3</sup> TWA: 0.8 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 2.4 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Portland Cement 65997-15-1	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	-
Mica 12001-26-2	-	TWA: 3 mg/m <sup>3</sup>	-	-	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Portland Cement 65997-15-1	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

Limestone 1317-65-3	-	-	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
Vermiculite 1318-00-9	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	-	-	-	-
Mica 12001-26-2	-	TWA: 3 mg/m <sup>3</sup>	-	TWA: 6 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**  
**Eye/face protection** Wear safety glasses with side shields (or goggles).



**Hand protection** Protective gloves.



**Skin and body protection** Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.



**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Physical state** Solid Powder

Appearance	Powder
Color	grey
Odor	Low
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks · Method</u>
pH	10 - 12	@ 20 °C
Melting point / freezing point	> 981 °C	
Boiling point / boiling range	Not Applicable	
Flash point	Not Applicable	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	

#### 9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

## 10. Stability and reactivity

### 10.1. Reactivity

Reactivity	No information available.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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#### Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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### 10.4. Conditions to avoid

Conditions to avoid	None known based on information supplied.
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**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**11. Toxicological information****11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Ingestion</b>	May cause irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**12. Ecological information**

**12.1. Toxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

**12.6. Other adverse effects**

**Other adverse effects** No information available.

**13. Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

**14. Transport information****IMDG**

14.1 **UN number** Not regulated  
 14.2 **UN proper shipping name** Not regulated  
 14.3 **Transport hazard class(es)** Not regulated  
 14.4 **Packing group** Not regulated  
 14.5 **Marine pollutant** Not applicable  
 14.6 **Special Precautions for Users**  
     **Special Provisions** None  
 14.7. **Transport in bulk according to Annex II of MARPOL and the IBC Code** No information available

**RID**

14.1 **UN number** Not regulated  
 14.2 **UN proper shipping name** Not regulated  
 14.3 **Transport hazard class(es)** Not regulated  
 14.4 **Packing group** Not regulated



14.5	<b>Environmental hazards</b>	Not applicable
14.6	<b>Special Precautions for Users</b>	
	<b>Special Provisions</b>	None

**ADR**

14.1	<b>UN number</b>	Not regulated
14.2	<b>UN proper shipping name</b>	Not regulated
14.3	<b>Transport hazard class(es)</b>	Not regulated
14.4	<b>Packing group</b>	Not regulated
14.5	<b>Environmental hazards</b>	Not applicable
14.6	<b>Special Precautions for Users</b>	
	<b>Special Provisions</b>	None

**IATA**

14.1	<b>UN number</b>	Not regulated
14.2	<b>UN proper shipping name</b>	Not regulated
14.3	<b>Transport hazard class(es)</b>	Not regulated
14.4	<b>Packing group</b>	Not regulated
14.5	<b>Environmental hazards</b>	Not applicable
14.6	<b>Special Precautions for Users</b>	
	<b>Special Provisions</b>	None

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
Portland Cement 65997-15-1	RG 8, RG 10	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**16. Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

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<b>Revision Note</b>	Updated format.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

**The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**