ISOLATEK® Type M-II
Safety Data Sheets
This safety data sheet was created pursuant to the requirements of:

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

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2 - (H315)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1 - (H318)</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1B - (H317)</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3 - (H335)</td>
</tr>
</tbody>
</table>

2.1. Label elements

Signal word

![Exclamation mark and exclamation mark with explosion symbol]
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

### 3. Composition/information on ingredients

#### 3.1 Substances
Not applicable

#### 3.1 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>266-043-4</td>
<td>65997-15-1</td>
<td>30 - 60</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Limestone</td>
<td>215-279-6</td>
<td>1317-65-3</td>
<td>10 - 30</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Vermiculite</td>
<td>603-518-0</td>
<td>1318-09-9</td>
<td>10 - 30</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Mica</td>
<td>601-648-2</td>
<td>12001-26-2</td>
<td>10 - 30</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**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.
5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

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

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

Other information

Refer to protective measures listed in Sections 7 and 8.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
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.

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

7.1. Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

7.1. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

8. Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 4 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>65997-15-1</td>
<td></td>
<td>TWA: 4 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 30 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 12 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limestone</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1317-65-3</td>
<td></td>
<td>TWA: 4 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 30 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 12 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 3 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>12001-26-2</td>
<td></td>
<td>TWA: 0.8 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 2.4 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 5 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>65997-15-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 3 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica</td>
<td>-</td>
<td>TWA: 3 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12001-26-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 6 mg/m³</td>
<td>-</td>
<td>TWA: 1 mg/m³</td>
</tr>
<tr>
<td>65997-15-1</td>
<td></td>
<td>TWA: 2 mg/m³</td>
<td></td>
<td></td>
<td>STEL: 3 mg/m³</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Physical state**
- **Limestone 1317-65-3**
  - TWA: 10 mg/m$^3$
  - STEL: 30 mg/m$^3$
- **Vermiculite 1318-00-9**
  - TWA: 5 mg/m$^3$
  - STEL: 10 mg/m$^3$
- **Mica 12001-26-2**
  - TWA: 3 mg/m$^3$
  - STEL: 6 mg/m$^3$

**Chemical properties**
- **Limestone 1317-65-3**
  - TWA: 4 mg/m$^3$
  - STEL: 12 mg/m$^3$
- **Vermiculite 1318-00-9**
  - TWA: 12 mg/m$^3$
  - STEL: 12 mg/m$^3$
- **Mica 12001-26-2**
  - TWA: 6 mg/m$^3$
  - STEL: 12 mg/m$^3$

---

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

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

**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.
10. Stability and reactivity

10.1  Reactivity

Reactivity  No information available.

10.2  Chemical stability

Stability  Stable under normal conditions.

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.

10.4  Conditions to avoid

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

Incompatible materials None known based on information supplied.

10.4. 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

<table>
<thead>
<tr>
<th>Route</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause irritation of respiratory tract.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Causes skin irritation. May cause sensitization by skin contact.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause irritation.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

<table>
<thead>
<tr>
<th>Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

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 | None |
| | Special Provisions | |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| 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 Environmental hazards
   Not applicable
14.6 Special Precautions for Users
   Special Provisions
   None

ADR
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 Environmental hazards
   Not applicable
14.6 Special Precautions for Users
   Special Provisions
   None

IATA
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 Environmental hazards
   Not applicable
14.6 Special Precautions for Users
   Special Provisions
   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)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>French RG number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>RG 8, RG 10</td>
<td>-</td>
</tr>
<tr>
<td>65997-15-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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

Issuing Date  30-Sep-2018
Revision date  19-Dec-2018
Revision Note  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