1. Identification

1.1. Product identifier

Product Name: ISOLATEK® TYPE 400

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)

<table>
<thead>
<tr>
<th>Country</th>
<th>Emergency Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>112</td>
</tr>
<tr>
<td>France</td>
<td>+(33)-975181407</td>
</tr>
<tr>
<td>Germany</td>
<td>+(49)-69643508409</td>
</tr>
<tr>
<td>Italy</td>
<td>+(39)-0245557031</td>
</tr>
</tbody>
</table>

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

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
EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)
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
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
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/containers in accordance with local regulations

2.3. Other hazards
Other hazards not contributing to the classification:
This product may contain trace amounts of crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness.

3. Composition/information on ingredients

3.1. Substances
Not applicable

3.2. 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>
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</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>266-043-4</td>
<td>65997-15-1</td>
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<td>No data available</td>
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<tr>
<td>Vermiculite</td>
<td>603-518-0</td>
<td>1318-00-9</td>
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<td>No data available</td>
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<tr>
<td>Limestone</td>
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<td>10 - 30</td>
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<td>No data available</td>
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<td>Cellulose</td>
<td>232-674-9</td>
<td>9004-34-6</td>
<td>1 - 10</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.

Inhalation
Remove to fresh air. Call a physician if symptoms occur.
Eye contact
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.

Skin contact
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.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider
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

Symptoms
No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

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.

6.4. Reference to other sections

Reference to other sections: For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

7.3. Specific end use(s)

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

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
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<td>TWA: 10 mg/m³</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 4 mg/m³</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
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<td></td>
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<td></td>
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</tr>
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<tr>
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<td></td>
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<tr>
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<td>Portugal</td>
<td>Netherlands</td>
<td>Finland</td>
<td>Denmark</td>
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</tr>
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<td>TWA: 1 mg/m³</td>
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<tr>
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<td>Switzerland</td>
<td>Poland</td>
<td>Norway</td>
<td>Ireland</td>
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<tr>
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<td>-----------------</td>
<td>----------------</td>
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<td>---------</td>
<td>---------</td>
</tr>
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<td>TWA: 5 mg/m³</td>
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<td>-</td>
<td>TWA: 1 mg/m³</td>
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<td></td>
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<td>STEL: 3 mg/m³</td>
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<tr>
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</tr>
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<td></td>
<td>STEL 10 mg/m³</td>
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<tr>
<td>Limestone 1317-65-3</td>
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<td>-</td>
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<td>TWA: 10 mg/m³</td>
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<td>TWA: 4 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL: 30 mg/m³</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>10 - &lt; 11.5</td>
<td>@ 20 °C</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>&gt; 981 °C</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL)
No information available.

Predicted No Effect Concentration (PNEC)
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.

10.5. 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

Inhalation
May cause irritation of respiratory tract.

Eye contact
Causes serious eye damage.

Skin contact
Causes skin irritation. May cause sensitization by skin contact.

Ingestion
May cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose</td>
<td>&gt; 5 g/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5800 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

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

Skin corrosion/irritation
Irritating to skin.

Serious eye damage/eye irritation
Risk of serious damage to eyes.

Respiratory or skin sensitization
May cause sensitization by skin contact.

Germ cell mutagenicity
No information available.

Carcinogenicity
No information available.

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

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.

Waste codes / waste designations according to EWC / AVV

According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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 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
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>
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<tbody>
<tr>
<td>Portland Cement</td>
<td>RG 8, RG 10</td>
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<td>65997-15-1</td>
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<td></td>
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<tr>
<td>Cellulose</td>
<td>RG 66</td>
<td>-</td>
</tr>
<tr>
<td>9004-34-6</td>
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<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
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
World Health Organization

Issuing Date 18-Apr-2019
Revision date 18-Apr-2019
Revision Note Initial Release.

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