Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name: ISOLATEK® Type 300
Contains Disodium Octaborate Tetrahydrate

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
Company: 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 Number: 703-527-3887
Chemtrec 1-800-424-9300

Section 2. Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008
Reproductive Toxicity: Category 1B

Physical Hazards
None

2.2. Label Elements

Signal Word: Danger

Hazard Statements
H360FD - May damage fertility. May damage the unborn child
Restricted to professional users
Contains (Disodium octaborate, tetrahydrate).
Precautionary Statements - EU (§28, 1272/2008)
P201 - Obtain special instructions before use
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention

Precautionary Statements
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local regulations.

2.3. Other information
No information available

Section 3. Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octaborate Tetrahydrate</td>
<td>234-541-0</td>
<td>12280-03-4</td>
<td>&lt; 1</td>
<td>Repr. 1B (H360FD)</td>
<td>01-2119490860-33-XX</td>
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</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

Note
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 are registered under another regulatory process (biocide uses, plant protection, etc.).
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

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

Inhalation
Move to fresh air.

Protection of First-aiders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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

Most Important Symptoms/Effects
No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

Section 5. Fire-fighting measures
5.1. **Extinguishing media**

*Suitable Extinguishing Media*

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

*Extinguishing media which must not be used for safety reasons*

No information available.

5.2. **Special hazards arising from the substance or mixture**

*Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases*

None in particular.

5.3. **Advice for firefighters**

*Special protective equipment for fire-fighters*

As in any fire, wear self-contained breathing apparatus and full protective gear.

---

### Section 6. Accidental release measures

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

Ensure adequate ventilation.

6.2. **Environmental precautions**

Prevent further spillage if safe to do so.

6.3. **Methods and materials for containment and cleaning up**

Pick up and transfer to properly labeled containers.

6.4. **Reference to other sections**

For additional information see: Section 8: Exposure controls/personal protection Section 12: Ecological Information Section 13: Disposal considerations

---

### Section 7. Handling and storage

7.1. **Precautions for Safe Handling**

**Handling**

Ensure adequate ventilation.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Once container is opened, use entire contents at once.

7.3. **Specific end use(s)**

**Exposure Scenario**

No information available.

**Other Guidelines**

No information available.

---

### Section 8. Exposure controls/personal protection
8.1. Control parameters

Exposure Limits
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

8.2. Exposure controls

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Personal protection equipment should be chosen according to the CEN standards

Eye Protection
Safety glasses with side-shields.

Skin and Body Protection
Long sleeved clothing.

Hand Protection
Protective gloves.

Respiratory Protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls
No information available.

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>Odor</td>
<td>Low</td>
<td>No information available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid, Powder</td>
<td>No information available</td>
</tr>
<tr>
<td>Appearance Odor Threshold</td>
<td></td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 10</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>981 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information
VOC Content (%)
No information available
Section 10. Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No information available

10.4. Conditions to avoid
None known based on information supplied.

10.5. Incompatible materials
No information available

10.6. Hazardous decomposition products
None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity
Product Information
The product itself has not been tested.
Inhalation
Based on components:. The product is not expected to be toxic by inhalation.
Eye Contact
Not expected to be an irritant based on components.
Skin Contact
Not expected to be an irritant based on components.
Ingestion
Low order of toxicity based on components.

Acute Toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral 99,999.00 mg/kg

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of paris</td>
<td>&gt; 3000 mg/kg ( Rat )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cellulose</td>
<td>&gt; 5 g/kg ( Rat )</td>
<td>&gt; 2 g/kg ( Rabbit )</td>
<td>&gt; 5800 mg/m³ ( Rat ) 4 h</td>
</tr>
<tr>
<td>Bentonite</td>
<td>&gt; 5000 mg/kg ( Rat )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disodium Octaborate Tetrahydrate</td>
<td>= 2500 mg/kg ( Rat )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium c14-16 olefin sulfonate</td>
<td>= 2220 mg/kg ( Rat )</td>
<td>&gt; 740 mg/kg ( Rabbit )</td>
<td></td>
</tr>
</tbody>
</table>

Respiratory or Skin Sensitization
No information available

Mutagenic Effects
May damage fertility or the unborn child

Carcinogenic Effects
No information available

Reproductive Toxicity
No information available

Developmental Toxicity
No information available

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Aspiration Hazard
No information available.

Section 12. Ecological information

12.1. Toxicity
Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability
No information available

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
No information available.

12.6. Other adverse effects
This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods
Waste from Residues / Unused Products
Dispose of in accordance with local regulations.
Contaminated Packaging
Dispose of in accordance with local regulations.

Section 14. Transport information

IMDG/IMO
14.1. UN-Number
Not regulated.
14.2. Proper Shipping Name
Not regulated.
14.3. Hazard Class
Not regulated.
14.4. Packing Group
Not regulated.
Description
Not applicable.
14.5. Marine Pollutant
None
None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

RID
14.1. UN-Number
Not regulated.
14.2. Proper Shipping Name
Not regulated.
14.3. Hazard Class
Not regulated.
14.4. Packing Group
Not regulated.
Description
Not applicable.
Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Candidate List of Substances of Very High Concern for Authorization
No substances listed at 0.1% or greater.

Authorizations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII). Substances classified as Reproductive Toxicity must comply with Annex XVII Note 30 which restricts the use of the substance to products "Restricted to professional users".

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Restricted substance per REACH Annex XVII</th>
<th>Substance subject to authorization per REACH Annex XIV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octaborate Tetrahydrate - 12280-03-4</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Occupational Illnesses (R-463-3, France)

International Inventories
TSCA Contact supplier for inventory compliance status
European Union Contact supplier for inventory compliance status
DSL/NDSL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
ENCS Contact supplier for inventory compliance status
IECSC Contact supplier for inventory compliance status
AICS Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H360FD - May damage fertility. May damage the unborn child

Key or legend to abbreviations and acronyms
EU - European Union VOC: Volatile Organic Compound

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date 07-Jun-2018
Revision Date 08-Jun-2018
Revision Note Not applicable.


General Disclaimer
The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet