1) Identification of the substance/mixture and of the Company

**Product identifiers**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Fumonisin B1</th>
<th>Fermentek</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>FB</td>
<td></td>
</tr>
<tr>
<td>CAS #</td>
<td>116355-83-0</td>
<td></td>
</tr>
<tr>
<td>EC/REACH Number</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

**Intended uses of the substance or mixture and uses advised against**

<table>
<thead>
<tr>
<th>Intended use</th>
<th>Uses advised against:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only for Research and/or Development</td>
<td>Not for drug, Not to be used in humans or animals. Not food additive</td>
</tr>
</tbody>
</table>

**Details of the supplier of the safety data sheet**

FERMENTEK ltd
4 Yatziv street, POB 47120
Jerusalem 97800, Israel
Tel: +972 2 5853953
Fax: +972 2 5853943
eMail: fermentek@fermentek.com
Website: www.fermentek.com

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night:
Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887

This company is the manufacturer of the product, and the supplier of the safety data sheet

**REACH**

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

2) Hazards identification

**Classification of the substance or mixture**

**GHS Classification:**

<table>
<thead>
<tr>
<th>Acute Toxicity, Oral</th>
<th>N.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>(Category 2)</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>(Category 2)</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>(Category 2)</td>
</tr>
</tbody>
</table>

**EU Classification (According to EU Regulation 67/548/EEC)**

Limited evidence of a carcinogenic effect.
Possible risk of harm to the unborn child.
Possible risk of impaired fertility.
Possible risk of irreversible effects.
EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

<table>
<thead>
<tr>
<th>Hazard Statements</th>
<th>Hazard Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful</td>
<td>Xn</td>
</tr>
</tbody>
</table>

Risk Codes and Phrases
- R40. Limited evidence of a carcinogenic effect
- R63. Possible risk of harm to the unborn child.
- R62. Possible risk of impaired fertility.
- R68. Possible risk of irreversible effects

Safety Precaution Codes and Phrases
- S45. In case of accident or if you feel unwell, seek medical advice immediately (show SDS where possible).
- S37/39. Wear suitable gloves and eye/face protection.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word and pictogram

Warning

GHS Hazard Statements
- H351. Suspected of causing cancer.
- H361. Suspected of damaging fertility or the unborn child
- H341. Suspected of causing genetic defects

GHS Label elements, including precautionary statements

GHS Hazard Statements
- H361: Suspected of damaging fertility or the unborn child.
- H341: Suspected of causing genetic defects.
- H351: Suspected of causing cancer

GHS Precautionary Statements
- P201: Obtain special instructions before use.

3) Composition/information on ingredients

Substance
- Substance name: Fumonisin B1
- CAS Registry #: 116355-83-0
- EC#: --
- Molecular Formula: C34H59NO15
- Molecular Weight: 721.83

Germ Cell Mutagenicity (Category 2)
Reproductive Toxicity (Category 2)
Carcinogenicity (Category 2)
Acute Toxicity, Oral N.A.

Mixture: Not mixture
4) First Aid Measures

Description of First Aid Measures

General advice: If medical attention is required, show this safety data sheet to the doctor.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.

Inhalation: Immediate medical attention is required. Remove to fresh air if not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Self-protection of the first aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

5) Fire-fighting measures

Extinguishing media

| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | None |
| Hazardous combustion products | Carbon oxides, |
| Advice for firefighters | Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit. |
6) Accidental release measures

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

**Personal precautions**
Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment:**
Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:**
Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

7) Handling and storage

**Precautions for safe handling**
Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

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

**Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible materials:**
None known based on information available.

**Specific End Uses**
For scientific research and development only. Not for use in humans or animals.

8) Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

**OSHA Permissible Exposure Limits**
No Data Available

**NIOSH Recommended Exposure Limits**
No Data Available

**ACGIH Threshold Limit Values**
No Data Available

**Exposure controls**

**Appropriate engineering controls**
Engineering Controls: Showers, Eyewash stations, Ventilation systems

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

**Personal protective equipment**
The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

**[PPE=Personal Protection Equipment]**

**PPE: Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
9) Physical and chemical properties

Physical / chemical properties

<table>
<thead>
<tr>
<th>Physical State at room temperature</th>
<th>Solid / powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
</tr>
<tr>
<td>Boiling point</td>
<td></td>
</tr>
<tr>
<td>Volatility</td>
<td>Not volatile</td>
</tr>
<tr>
<td>Density</td>
<td></td>
</tr>
</tbody>
</table>

No further safety-relevant information is available

10) Stability and reactivity

Reactivity: No information available.
Chemical stability: Stable under normal conditions.
Conditions to avoid: Heat, flames and sparks. Sunlight.
Incompatible materials: Strong reducers and oxidizers
Possibility of Hazardous Reactions: None under normal processing
Hazardous decomposition products: Carbon oxides, Nitrogen oxides

11) Toxicological information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation: No data available</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation: No data available</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization: No data available</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity: No data available</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity: Evidence of a carcinogenic effect. This compound has been designated by the IARC as Group 2B: Possibly carcinogenic to humans.</td>
<td></td>
</tr>
</tbody>
</table>

RTECS: TZ8350000
12) Ecological Information

Eco-Toxicity: No relevant information available
Other adverse effects: No relevant information available.

13) Disposal Considerations

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues / unused products</td>
</tr>
<tr>
<td>Contaminated packaging</td>
</tr>
<tr>
<td>Dispose of in accordance with local regulations</td>
</tr>
<tr>
<td>Dispose of as unused product</td>
</tr>
</tbody>
</table>

14) Transport information

<table>
<thead>
<tr>
<th>UN number, Proper Shipping Name, Transport Hazard Class, packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
</tr>
<tr>
<td>None</td>
</tr>
<tr>
<td>Not regulated</td>
</tr>
</tbody>
</table>

15) Regulatory information

<table>
<thead>
<tr>
<th>Safety, health and environmental regulations/legislation</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA EPA / TSCA</td>
</tr>
<tr>
<td>This product is not listed on the USA EPA TSCA</td>
</tr>
<tr>
<td>EU ECHA Status</td>
</tr>
<tr>
<td>This product is not registered with the EU ECHA</td>
</tr>
<tr>
<td>CA: DSL/NDSL Status</td>
</tr>
<tr>
<td>This product is not listed on the Canadian DSL/NDSL</td>
</tr>
</tbody>
</table>

16) Other information

Date of revision: 25 April 2017

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 here is designed only as 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 SDS