## Safety Data Sheet: Bafilomycin A1

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

<table>
<thead>
<tr>
<th>Product identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Product Code</strong></td>
</tr>
<tr>
<td><strong>CAS #</strong></td>
</tr>
<tr>
<td><strong>EC Number #</strong></td>
</tr>
</tbody>
</table>

| MW                  | 622.8          |
| Formula             | C35H58O9       |

**Product Code**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

<table>
<thead>
<tr>
<th>FERMENTEK ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Yatziv street, POB 47120</td>
</tr>
<tr>
<td>Jerusalem 97800, Israel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tel</th>
<th>+972 2 5853953</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax</td>
<td>+972 2 5853943</td>
</tr>
<tr>
<td>eMail</td>
<td><a href="mailto:fermentek@fermentek.com">fermentek@fermentek.com</a></td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.fermentek.com">www.fermentek.com</a></td>
</tr>
</tbody>
</table>

**Emergency Telephone number**

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**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 3) Composition/information on ingredients

**Substance**

<table>
<thead>
<tr>
<th>Substance name:</th>
<th>Bafilomycin A1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Registry #:</td>
<td>88899-55-2</td>
</tr>
</tbody>
</table>

Molecular Formula: C35H58O9  Molecular Weight: 622.83

**Mixture**

Not mixture.
4) First Aid Measures

4.1 Description of First Aid Measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

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. Store at -20 °C.
- **Incompatible materials**: None known based on information available.

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 fume hood 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**: 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).
PPE: Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands.

PPE: Eye Protection: Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

PPE: Skin and Body Protection: Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace. When deemed needed according to the concentration and amount of this product, use a complete body suit.

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>
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</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

11) Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity: No data available

<table>
<thead>
<tr>
<th>Skin corrosion/irritation:</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation:</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization:</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
</tr>
<tr>
<td>Reproductive toxicity / Teratogenicity:</td>
<td>No information available.</td>
</tr>
<tr>
<td>STOT-SE – single exposure (GHS):</td>
<td>No information available.</td>
</tr>
<tr>
<td>STOT-RE – repeated exposure (GHS):</td>
<td>No information available.</td>
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<tr>
<td>Aspiration hazard:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation: No information available.
Skin: No information available.
Eyes: No information available.
Ingestion

No information available.

Signs and Symptoms of Exposure

No information available.

Additional information:

RTECS: Not available.

Prolonged or repeated exposure can cause: Nausea, Headache, Vomiting.

12) Ecological Information

12.1 Eco-Toxicity

No further relevant information available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No further relevant information available.

13) Disposal Considerations

Waste treatment methods

| Waste from residues / unused products | Dispose of in accordance with local regulations |
| Contaminated packaging               | Dispose of as unused product                   |

14) Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>ADR/RID:</th>
<th>IMDG:</th>
<th>IATA</th>
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</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>Not hazardous for transport</td>
<td>Not hazardous for transport</td>
<td>Not hazardous for transport</td>
<td>Not hazardous for transport</td>
</tr>
<tr>
<td>UN proper shipping name</td>
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<td></td>
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<tr>
<td>Transport Hazard Class</td>
<td>Not hazardous</td>
<td>Not hazardous</td>
<td>Not hazardous</td>
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<tr>
<td>&amp; Packing Group</td>
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</table>

15) Regulatory information

Safety, health and environmental regulations/legislation

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

16) Other information

Date of revision: 28 May 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