SAFETY DATA SHEET
Bafilomycin A1

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 11038
Product Name: Bafilomycin A1

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:
Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

1.4 Emergency telephone number:
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label Elements:

GHS Signal Word: Warning
GHS Hazard Phrases:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

GHS Precaution Phrases:
P264: Wash (hands) thoroughly after handling.
P280: Wear (protective gloves/protective clothing/eye protection/face protection).
P362+364: Take off contaminated clothing and wash it before reuse.
P261: Avoid breathing (dust/fume/gas/mist/vapours/spray).

GHS Response Phrases:
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P332+313: If skin irritation occurs, get medical advice/attention.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Disposal Phrases:
2.3 Adverse Human Health Effects and Symptoms:

- Causes skin irritation.
- Causes serious eye irritation.
- Material may be irritating to the mucous membranes and upper respiratory tract.
- May be harmful by inhalation, ingestion, or skin absorption.
- May cause respiratory irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>88899-55-2</td>
<td>Bafilomycin A1</td>
<td>100.0 %</td>
<td>NA/NA</td>
<td>Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

- **In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

- **In Case of Skin Contact:** Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

- **In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

- **In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

- Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

- Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media:

A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards:

- **Flash Pt:** No data available.
- **Explosive Limits:** LEL: No data. UEL: No data.
- **Autoignition Pt:** No data.

5.3 Fire Fighting Instructions:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures:
- Avoid raising and breathing dust, and provide adequate ventilation.
- As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions:
- Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning:
- Contain spill and collect, as appropriate.
- Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling:
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing:
- Keep container tightly closed.
- Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls:
- Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:
- Eye Protection: Safety glasses
- Protective Gloves: Compatible chemical-resistant gloves
- Other Protective Clothing: Lab coat
- Respiratory Equipment: NIOSH approved respirator, as conditions warrant.
- (Specify Type): NIOSH approved respirator, as conditions warrant.
- Work/Hygienic/Maintenance Practices:
  - Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
  - Wash thoroughly after handling.
  - Do not take internally.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [X] Solid

Appearance and Odor:
- A crystalline solid

pH:
- No data.

Melting Point:
- No data.

Boiling Point:
- No data.

Flash Pt:
- No data.

Evaporation Rate:
- No data.

Flammability (solid, gas):
- No data available.

Explosive Limits:
- LEL: No data.
- UEL: No data.

Vapor Pressure (vs. Air or mm Hg):
- No data.

Vapor Density (vs. Air = 1):
- No data.
**SAFETY DATA SHEET**

**Bafilomycin A1**

<table>
<thead>
<tr>
<th>Section 10. Stability and Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.1 Reactivity:</strong> No data available.</td>
</tr>
<tr>
<td><strong>10.2 Stability:</strong> Unstable [ ] Stable [ X ]</td>
</tr>
<tr>
<td><strong>10.3 Stability Note(s):</strong> Stable if stored in accordance with information listed on the product insert.</td>
</tr>
<tr>
<td><strong>Polymerization:</strong> Will occur [ ] Will not occur [ X ]</td>
</tr>
<tr>
<td><strong>10.4 Conditions To Avoid:</strong> No data available.</td>
</tr>
<tr>
<td><strong>10.5 Incompatibility - Materials</strong> strong oxidizing agents</td>
</tr>
<tr>
<td><strong>To Avoid:</strong> carbon dioxide</td>
</tr>
<tr>
<td><strong>10.6 Hazardous</strong> carbon monoxide</td>
</tr>
<tr>
<td><strong>Decomposition or</strong></td>
</tr>
<tr>
<td><strong>Byproducts:</strong></td>
</tr>
</tbody>
</table>

Section 11. Toxicological Information

11.1 **Information on**

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

**Toxicological Effects:**

- Bafilomycin A1 - Toxicity Data: Intraperitoneal TDLO (mouse): 6 mg/kg/21D (intermittent);
- Bafilomycin A1 - Investigated as a drug and natural product.

**Chronic Toxicological Effects:**

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

- See actual entry in RTECS for complete information.
- Bafilomycin A1 RTECS Number: RN9781000

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>88899-55-2</td>
<td>Bafilomycin A1</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Section 12. Ecological Information

12.1 **Toxicity:**

Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 **Persistence and Degradability:** No data available.

12.3 **Bioaccumulative Potential:** No data available.

12.4 **Mobility in Soil:** No data available.

12.5 **Results of PBT and vPvB assessment:** No data available.

12.6 **Other adverse effects:** No data available.
Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):
   DOT Proper Shipping Name: Not dangerous goods.
   DOT Hazard Class:
   UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):
   ADR/RID Shipping Name: Not dangerous goods.
   UN Number:
   Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):
   ICAO/IATA Shipping Name: Not dangerous goods.
   Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
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</thead>
<tbody>
<tr>
<td>88899-55-2</td>
<td>Bafilomycin A1</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Other US EPA or State Lists</th>
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</thead>
<tbody>
<tr>
<td>88899-55-2</td>
<td>Bafilomycin A1</td>
<td>CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No</td>
</tr>
</tbody>
</table>

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 04/23/2018

Additional Information About This Product: No data available.

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