

Bafilomycin A1 (Baf-A1) SDS | MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Bafilomycin A1 (Baf-A1)
- **Catalog Number:** S1413
- **CAS Number:** 88899-55-2
- **IUPAC Name:** Oxacyclohexadeca-3,5,11,13-tetraen-2-one, 8-hydroxy-16-[(1S,2R,3S)-2-hydroxy-1-methyl-3-[(2R,4R,5S,6R)-tetrahydro-2,4-dihydroxy-5-methyl-6-(1-methylethyl)-2H-pyran-2-yl]butyl]-3,15-dimethoxy-5,7,9,11-tetramethyl-, (3Z,5E,7R,8S,9S,11E,13E,15S,16R)-

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS Classification

In accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200), the product as supplied is not classified as a hazardous substance or mixture.

GHS Label Elements

The product does not require hazard pictograms, signal words, hazard statements, or precautionary statements.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

CAS-No.: 88899-55-2

Components: No hazardous ingredients are present in this substance.

(Note: No chemical structural formula was provided in the source text for replacement).

4. FIRST AID MEASURES

Inhalation: If inhaled, move the person to fresh air.

Skin Contact: Immediately remove all contaminated clothing. Rinse the affected skin area with water or shower.

Eye Contact: Rinse eyes thoroughly with plenty of water. Remove contact lenses if present.

Ingestion: If swallowed, have the victim drink a maximum of two glasses of water. Consult a physician if the individual feels unwell.

Most Important Symptoms and Effects: The most important known symptoms and effects are described in the labeling (Section 2.2) and/or in Section 11.

Protection of First-Aiders: Refer to Section 8 for personal protective equipment.

Notes to Physician: No specific data provided for this section.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water, Foam, Carbon dioxide (CO₂), Dry powder.

Unsuitable Extinguishing Media: No limitations of extinguishing agents are specified for this substance.

Specific Hazards: The material is combustible. Hazardous combustion gases or vapors (specifically carbon oxides) may be developed in the event of a fire.

Extinguishing Methods: Prevent fire extinguishing water from entering surface water or groundwater systems.

Special Protective Equipment: Firefighters should wear self-contained breathing apparatus in the event of a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Emergency Procedures:

- **For non-emergency personnel:** Avoid inhalation of powder. Evacuate the danger area, observe emergency procedures, and consult an expert.
- **For emergency responders:** Refer to Section 8 for personal protection.

Environmental Precautions: Do not allow the product to enter drains.

Methods and Materials for Containment and Cleaning Up: Cover drains. Collect, bind, and pump off spills. Observe material restrictions (see Sections 7 and 10). Take up the material dry and dispose of it properly. Clean the affected area and avoid the generation of powder.

7. HANDLING AND STORAGE

Precautions for Safe Handling: For precautions, see Section 2.2.

Conditions for Safe Storage: Keep the container tightly closed and in a dry place.

Storage Class: 11, Combustible powder.

Recommended Storage Temperature: Refer to the product label for specific storage temperature requirements.

Storage Stability: Refer to the product label for stability information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: No specific data provided for this section.

Personal Protective Equipment:

- **Respiratory Protection:** Required when powder is generated. Recommended filter type P1 (based on DIN EN 143, DIN 14387).
- **Hand Protection:** Nitrile rubber gloves (Full and splash contact); Break through time: 480 min; Glove thickness: 0.11 mm (e.g., KCL 741 Dermatrill® L).
- **Eye Protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).

Hygiene Measures: Change contaminated clothing and wash hands thoroughly after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Color: N/A

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: N/A

Boiling Point: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability (powder, gas): N/A

Upper/Lower Explosion Limit: N/A

Vapor Pressure: N/A

Relative Vapor Density: N/A

Relative Density: N/A

Density: ca. 1.12 g/cm³ at 68 °F (20 °C) (calculated)

Water Solubility: N/A

Partition Coefficient (n-octanol/water): N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Explosive Properties: N/A

Oxidizing Properties: N/A

Molecular Weight: 622.83 g/mol

Particle Size: N/A

10. STABILITY AND REACTIVITY

Reactivity: Flammable organic substances in fine distribution may present a powder explosion potential when whirled up.

Chemical Stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of Hazardous Reactions: Violent reactions are possible with strong oxidizing agents.

Conditions to Avoid: No information available.

Incompatible Materials: N/A.

Hazardous Decomposition Products: In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A for oral, inhalation, or dermal routes.

Skin Corrosion/Irritation: N/A.

Serious Eye Damage/Irritation: N/A.

Respiratory or Skin Sensitization: N/A.

Germ Cell Mutagenicity: N/A.

Carcinogenicity:

- **IARC:** No component present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen.
- **NTP:** No component present at levels $\geq 0.1\%$ is identified as a known or anticipated carcinogen.
- **OSHA:** No component present at levels $\geq 0.1\%$ is on OSHA's list of regulated carcinogens.

Reproductive Toxicity: N/A.

STOT - Single Exposure: N/A.

STOT - Repeated Exposure: N/A.

Aspiration Hazard: N/A.

Additional Information: Prolonged or repeated exposure can cause nausea, headache, and vomiting.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A.

Persistence and Degradability: N/A.

Bioaccumulative Potential: N/A.

Mobility in Soil: N/A.

Other Adverse Effects: This product does not contain and was not manufactured with Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Waste material must be disposed of in accordance with national and local regulations. Chemicals should be left in their original containers and not mixed with other waste. Handle uncleaned containers with the same precautions as the product itself.

14. TRANSPORT INFORMATION

IATA-DGR: Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good.

49 CFR Road: Not regulated as a dangerous good.

Poison Inhalation Hazard: No.

Transport in Bulk: Not applicable for the product as supplied.

Special Precautions for User: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The components of this product are reported in the following inventories:

US TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/05/27

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.