



Safety Data Sheet: **Bafilomycin B1**

Section 1. Identification of the substance/mixture and of the Company

| Product identifiers | | | |
|---------------------|-----------------------|------------------|-------------------|
| Product name | Bafilomycin B1 | Formula | C44H65NO13 |
| Product Code | BFB | RTECS | NG8841000 |
| CAS # | 88899-56-3 | Molecular weight | 816 g/mol |
| EC Number # | 635-481-1 | | |

Intended uses of the substance or mixture and uses advised against

| Intended use | Uses advised against: |
|---|--|
| Only for Research and/or Development | Not for drug, Not to be used in humans or animals. Not food additive |

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 | 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.

Section 2. Hazards identification

Emergency Overview

OSHA Hazards

Highly toxic by inhalation, Highly toxic by skin absorption

GHS Classification

| | |
|----------------------------|--------------|
| Acute toxicity, Oral | (Category 2) |
| Acute toxicity, Inhalation | (Category 2) |
| Acute toxicity, Dermal | (Category 2) |

GHS Label elements, including precautionary statements

Signal word: **Danger**

Pictogram: { }



Comment: exact quantitative data for lethal or toxic doses for this compound are not available.

Hazard statement(s)

H300 + H310 + H330 Fatal if swallowed or in contact with skin or if inhaled

Precautionary statement(s)

- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/ protective clothing.
- P284 Wear respiratory protection.
- P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
- P310 Immediately call a POISON CENTER or doctor/ physician.



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Potential Health Effects

| | |
|-------------------|---|
| Inhalation | May be fatal if inhaled. May cause respiratory tract irritation. |
| Skin | May be fatal if absorbed through skin. May cause skin irritation. |
| Eyes | May cause eye irritation. |
| Ingestion | May be fatal if swallowed. |

Section 3. *Composition/information on ingredients*

| Substance | |
|------------------|---|
| Substance name: | Bafilomycin B1 |
| | CAS Registry #:88899-56-3 EC#: 635-481-1 |
| | Molecular Formula: C44H65NO13 Molecular Weight 816 g/mol |
| | Concentration: ≤ 100% |
| | H300+H330+H310 Fatal if swallowed or in contact with skin or inhaled |

Mixture

Not mixture.

Section 4. *First Aid Measures*

Description of First Aid Measures

| | |
|--|--|
| General advice: | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| Eye contact: | Flush eyes with water as a precaution |
| Skin Contact: | Wash off with soap and plenty of water. Take victim immediately to hospital. Consult 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: | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult 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. |
| Note to physicians | Not available |



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Section 5. *Fire-fighting measures*

Extinguishing media

| | |
|---------------------------------------|---|
| Flammability | Not flammable or combustible. |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | None |
| Hazardous combustion products | Carbon oxides, Nitrogen oxides. |
| Advice for firefighters | Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit. |

Section 6. *Accidental release measures*

| | |
|---|--|
| Personal precautions | Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. |
| 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. |

Section 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, Protect from sunlight. Protect from moisture. Store under inert gas (Argon). |
| Incompatible materials: | None known based on information available. |

Section 8. *Exposure Controls/Personal Protection*

No occupational exposure limits are listed for this material.

Exposure controls

This product, as supplied, does not contain any materials with occupational exposure limits established.

| | |
|-----------------------------------|-------------------|
| OSHA Permissible Exposure Limits | No Data Available |
| NIOSH Recommended Exposure Limits | No Data Available |
| ACGIH Threshold Limit Values | No Data Available |

Appropriate engineering controls

| | |
|----------------------|--|
| Engineering Controls | Showers, Eyewash stations, Ventilation systems |
|----------------------|--|



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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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

[PPE=Personal Protection Equipment]

PPE Eye/face protection Wear safety glasses with side shields (or goggles).
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 Complete suit protecting against chemicals may be recommended. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific 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).

Section 9. *Physical and chemical properties*

Physical / chemical properties

| | |
|---|----------------|
| Physical State at room temperature | Solid / powder |
| Color | Yellow powder |
| No further safety relevant data are available | |

Section 10. *Stability and reactivity*

Reactivity: Stable under recommended storage conditions.
Chemical stability: Stable under recommended storage conditions.
Conditions to avoid Heat, flames and sparks. Sunlight. Moisture.
Incompatible materials Strong reducers and oxidizers
Possibility of Hazardous Reactions None under normal processing
Hazardous decomposition products: Carbon oxides, Nitrogen oxides

Section 11. *Toxicological information*

Information on toxicological effects

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

| Acute Toxicity | |
|-----------------------|--------------------------|
| Ingestion / oral | TDLO (mouse) 0.47 mg/kg; |
| Inhalation | No data available |



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| | |
|--|---|
| Serious eye damage/eye irritation: | No data available |
| Skin corrosion/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Reproductive toxicity / Teratogenicity: | Investigated as reproductory effector |
| Aspiration hazard: | No data available |
| Additional information: | RTECS: NG8841000 |
| Potential health effects | |
| Inhalation | May be fatal if inhaled. May cause respiratory tract irritation. |
| Ingestion | May be harmful if swallowed. |
| Skin | May be fatal if absorbed through skin. May cause skin irritation. |
| Eyes | May cause eye irritation. |
| Carcinogenicity | Not identified as probable, possible or confirmed human carcinogen by IARC. Not identified as a carcinogen or potential carcinogen by ACGIH. Not identified as known or anticipated carcinogen by NTP. Not identified as a carcinogen or potential carcinogen by OSHA. |

Section 12. *Ecological Information*

| | |
|------------------------------|--|
| Eco-Toxicity | No further relevant information available |
| Other adverse effects | No further relevant information available. |

Section 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 |

Section 14. *Transport information*

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

| | US DOT | ADR/RID: | IMDG: | IATA |
|---|---|---|---|---|
| UN Number | 3462 | 3462 | 3462 | 3462 |
| UN proper shipping name | Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1) | Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1) | Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1) | Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1) |
| Transport Hazard Class & Packing Group | 6.1 poison II | 6.1 poison II | 6.1 poison; pg II Not Marine pollutant | 6.1 poison II |

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, packaging does not have to be labeled as Dangerous Goods / Excepted Quantity.

Section 15. *Regulatory information*

| | |
|---|---|
| Safety, health and environmental regulations/legislation | |
| USA EPA / TSCA | This product is not listed on the USA EPA TSCA |
| SARA 302 Components | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |



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| | |
|---------------------------------------|---|
| SARA 313 Components | 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. |
| SARA 311/312 Hazards | Acute Health Hazard |
| OSHA Hazards | Highly toxic by inhalation, Highly toxic by skin absorption |
| California Prop. 65 Components | This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |
| EU ECHA Status | CLP: listed; 635-481-1 |

Section 16. *Other information*

Date of revision:

- Thursday, 13 October, 2022 16:10

Department issuing this SDS

- Quality systems and regulatory affairs

General 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.

The users'/employers' responsibility:

- A risk assessment should be performed by the employer/user prior to use of this product.
- All recommendations included in this document, are advisory in nature.
- The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.



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Abbreviations and acronyms:

Acute Tox.: Acute toxicity
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DOT: US Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
Eye Dam.: Serious eye damage/eye irritation
HMIS: Hazardous Materials Identification System (USA)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, Median
LD50: Lethal dose, Median
NFPA: National Fire Protection Association (USA)
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
PBT: Persistent, Bioaccumulative and Toxic
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Repr.: Reproductive toxicity
Skin Irrit: Skin corrosion/irritation
STOT RE: Specific target organ toxicity (repeated exposure)
TLV: Threshold Limit Value
vPvB: very Persistent and very Bioaccumulative

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