



Safety Data Sheet: Aflatoxin-M1

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

| Product identifiers | | | |
|---------------------|--------------|------------------|--|
| Product name | Aflatoxin-M1 | Formula | C ₁₇ H ₁₂ O ₇ |
| Product Code | AFM | RTECS | GY1880000 |
| CAS # | 6795-23-9 | Molecular weight | 328.27 g/mol |
| EC Number # | 229-865-4 | | |
| | | | Date of revision: 1 August, 2018 |

| 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 | |
| On REACH List of Pre-Registered Substances, March 2009 Registration Date: 31-MAY-2013. On EINECS Annex to Official Journal of the European Communities, 15 June 1990 | |

Section 2. Hazards identification

Emergency Overview

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
 H350 May cause cancer

Precautionary statement(s)

P201 Obtain special instructions before use.
 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.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.



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: | Aflatoxin-M1 | |
| CAS# | CAS Registry #: 6795-23-9 | |
| EC# | EC#: 229-865-4 | |
| | Molecular Formula: C ₁₇ H ₁₂ O ₇ Molecular Weight 328.27 g/mol | H300+H330+H310:Fatal if swallowed or in contact with skin or inhaled H350 : May cause cancer. |
| | Concentration: ≤ 100% | |

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. |
| Inhalation: | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Skin Contact: | Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. |
| Eye contact: | Flush eyes with water as a precaution |
| 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 |
| 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 |



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. |
| Environmental precautions | Evacuate personnel to safe areas. Avoid breathing dust. 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. |
| Incompatible materials: | None known based on information available. |



Section 11. Toxicological information

Information on toxicological effects

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

Acute Toxicity

| | |
|---|--|
| Ingestion / oral | TDL0 (mouse) 0.47 mg/kg; LDLO or LD50 (Oral) not available |
| Inhalation | No data available |
| 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: GY1880000 |

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; pg II | 6.1 poison; pg II | 6.1 poison; pg II Not Marine pollutant | 6.1 poison; pg 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. |
| 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*

This is a controlled document.

Date of revision: 1 August, 2018

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