



Safety Data Sheet: Aflatoxin-M1

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

Product identifiers			
Product name	Aflatoxin-M1	Formula	C17H12O7
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,

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 letal 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.



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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:	Aflatoxin-M1	
CAS#	CAS Registry #: 6795-23-9	
EC#	EC#: 229-865-4	
	Molecular Formula: C17H12O7	H300+H330+H310:Fatal if swallowed or in contact
	Molecular Weight 328.27 g/mol	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 tob 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 precautionsUse 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.

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

ACGIH Threshold Limit Values

NO Data Available

NO Data Available

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 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 avoidHeat, flames and sparks. Sunlight. Moisture.

Incompatible materialsStrong reducers and exidizersPossibility of Hazardous ReactionsNone under normal processingHazardous decomposition products:Carbon oxides, Nitrogen oxides



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Section 11. Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.		
Acute Toxicity	product have not been thereaging studied.	
	TD10 / 10 47 // 1010 1050 /0 10 11 11 11	
Ingestion / oral	TDL0 (mouse) 0.47 mg/kg; LDL0 or LD50 (Oral) not available	
Inhalation	No data available	
Serious eye damage/eye	No data available	
irritation:		
Skin corrosion/irritation:	No data available	
Respiratory or skin sensitization:	No data available	
Germ cell mutagenicity:	No data available	
Reproductive toxicity /	Investigated as reproductory effector	
Teratogenicity:		
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 UN proper shipping name	3462 Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1)	3462 Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1)	3462 Toxins, extracted from living sources, solid, n.o.s. (Bafilomycin B1)	3462 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.



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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

