



Safety Data Sheet Aflatoxin M2

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

1.1. Product identifiers

Product name	Aflatoxin M2	Formula	C ₁₇ H ₁₄ O ₇
Product Code	Afm	RTECS	GY1720000
CAS #	6885-57-0	Molecular weight	330.29
EC Number #	229-989-9		
Synonym	4-hydroxyaflatoxin B2		
Date of version	<6 October, 2022>	Substance?Mixture?	Substance

1.2. Intended uses of the substance and uses advised against

1.2.1. Intended use:

- Research and development.
- Laboratory reagent.
- Reference material.
- Manufacturing of substances.

1.2.2. Uses advised against:

- Not for drug
- Not to be used in humans
- Not to be used in animals.
- Not food additive

1.3. 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

1.4. 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



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2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. GHS Classification:

Ingestion	Category 2	H300	Fatal if swallowed
Inhalation	Category 2	H330	Fatal if inhaled
Dermal contact	Category 2	H310	Fatal in contact with skin
Carcinogenicity	Category 1B	H350	May cause cancer
Germ cell mutagenicity	Category 1B	H340	May cause genetic defects

2.1.2. HS Label elements, incCategory 1Bluding precautionary statements

Pictogram:  Signal word: {DANGER}

GHS Hazard Statements

H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled.
H340	May cause genetic defects.
H350	May cause cancer

GHS Precautionary Statements

P201	Obtain special instructions before use.
P262	Do not get in eyes, on skin, or on clothing
P280	Wear {protective gloves/protective clothing/eye protection/face protection}.
P301+P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P310	IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor
P261	Avoid breathing {dust/fume/gas/mist/vapors/spray}.
P264	Wash {hands} thoroughly after handling.

GHS Response Phrases:

P308+313	If exposed or concerned: Get medical advice/attention
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3. Composition/information on ingredients

Substance	
Substance name:	6885-57-0
Concentration	100%
	CAS Registry #:6885-57-0 EC#:229-989-9
	Molecular Formula: C ₁₇ H ₁₄ O ₇ ;



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	Molecular Weight: 330.29	
Classification	Acute Tox. 1; Muta. 1B; Carc. 1B; H300, H330, H310, H340, H350	
Mixture?	Substance	

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact:	Flush eyes with water as a precaution. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation:	If inhaled, move person into the fresh air. If not breathing, give artificial respiration. Consult a physician.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None

5.2. Other information

Hazardous combustion products	Carbon oxides,
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.



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6.2. 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 a 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.

7. Handling and storage

7.1. 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.
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7.2. 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. Reportedly, Light sensitive.
	Store at -20 °C.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	Components with workplace control parameters
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8.2. Exposure controls

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 fume hood for routine work.
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8.3. 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.

[PPE=Personal Protection Equipment]

PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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).
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection:	Use a 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:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	Color Yellow powder
Melting/freezing point	299°C
No further safety relevant data are available	

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and oxidizers



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Possibility of Hazardous Reactions	<i>None under normal processing</i>
Hazardous decomposition products	<i>Carbon oxides</i>

11. Toxicological information

11.1. Information on toxicological effects

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

Acute Toxicity	<i>Oral, rat; LDLO = 1.5 mg/kg</i>
Skin corrosion/irritation:	<i>No quantitative data available</i>
Serious eye damage/eye irritation:	<i>No quantitative data available</i>
Respiratory or skin sensitization/corrosion:	
Germ cell mutagenicity:	<i>No data available</i>
Carcinogenicity:	<i>IARC: Group 1: Carcinogenic to humans (Aflatoxin M1)</i>
Reproductive toxicity / Teratogenicity:	<i>Laboratory results on structurally similar molecules have shown reproductive toxicity/teratogenicity in animal models.</i>
STOT-SE – single exposure (GHS):	<i>No data available</i>
Aspiration hazard:	<i>No data available</i>

11.2. Additional information

RTECS number	<i>GY1720000</i>
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12. Ecological Information

Eco-Toxicity	<i>No further relevant information available</i>
Other adverse effects	<i>No further relevant information available.</i>

13. Disposal Considerations

13.1. Waste treatment methods

<i>Waste from residues / unused products</i>	<i>Dispose of in accordance with local regulations</i>
<i>Contaminated packaging</i>	<i>Dispose of as unused product</i>



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14. Transport information

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

	US DOT	US DOT	US DOT	US DOT
UN Number	UN 2811 TOXIC	UN 2811 TOXIC	UN 2811 TOXIC	UN 2811 TOXIC
UN proper shipping name	SOLID, ORGANIC, N.O.S	SOLID, ORGANIC, N.O.S	SOLID, ORGANIC, N.O.S	SOLID, ORGANIC, N.O.S
Transport Hazard Class & Packing Group	(AFLATOXIN M1), 6.1, I	(AFLATOXIN M1), 6.1, I	(AFLATOXIN M1), 6.1, I	(AFLATOXIN M1), 6.1, I

Sent under De-Minimis exemption

Additional information	Excepted quantities (EQ)	Code: E5	Maximum net quantity per inner packaging:	Maximum net quantity per outer packaging:
			1 g	300 g

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is registered with the EU ECHA, Number 229-989-9 ANNEX III: Listed REACH: Preregistred.
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

16. Other information

16.1. Date of revision:

6 October, 2022

16.2. Department issuing this SDS

Quality systems and regulatory affairs

16.3. 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.



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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.

16.4. The users'/employers' responsibility:

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.

A risk assessment should be performed by the employer/user prior to use of this product.

16.5. 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

16.6. APPENDIX: Excepted Quantity shipment codes explanation

According to Section 2.6 in IATA, Section 3.5 in the IMDG.

Code	Maximum Quantity per inner package	Maximum Quantity per outer package
E1	30g / 30ml	1Kg / 1L
E2	30g / 30ml	500g / 500ml
E3	30g / 30ml	300g / 300ml
E4	1g / 1ml	500g / 500ml



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E5	1g / 1ml	300g / 300ml
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16.8. End of SDS
