



Safety Data Sheet: **Aflatoxin B2 | Fermentek**

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

Product identifier

Product Code: AFb
Product name: Aflatoxin B2 | Fermentek
CAS # 7220-81-7
EC/ REACH Number

Intended uses of the substance or mixture and uses advised against

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

Details of the manufacturer and supplier of the safety data sheet

Company **FERMENTEK**
4 Yatziv street, POB 47120
Jerusalem 97800, Israel
Tel: +972 2 5853953
Fax: +972 2 5853943
eMail fermentek@fermentek.com
Website: www.fermentek.com
This company is the manufacturer of the product, and the supplier of the safety data sheet

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

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.



2 Hazards identification

Classification of the substance or mixture

GHS Classification:

Acute Toxicity, Oral	(Category 1)
Acute Toxicity, Inhalation	(Category 2)
Reproductive Toxicity	(Category 1A)
Carcinogenicity	(Category 1B)

GHS Label elements, including precautionary statements



Pictogram:

Signal word: {DANGER}

GHS Hazard Statements

H300	Fatal if swallowed.
H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H350	May cause cancer.

GHS Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
P301/P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308/P313	IF exposed or concerned: Get medical advice/attention.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

SECTION 3: Composition/information on ingredients

Substance

Molecular Formula:	C ₁₇ H ₁₄ O ₆
Molecular Weight:	314.3
CAS Registry #:	7220-81-7
EC#:	230-618-8
Synonyms	Dihydroaflatoxin B1 (6aR,9aS)-2,3,6a,8,9,9a-Hexahydro-4-methoxycyclopenta[c]furo[3',2':4,5]furo[2,3-h][1]benzopyran-1,11-dione;

Mixture

Not mixture. This product is a pure compound

4 First Aid Measures

General advice	Consult a doctor, as medical attention may be required. If symptoms persist, call a physician.
Eye contact:	Immediately flush with plenty of water. 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:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call 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:	Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, 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.
Most important symptoms:	No information available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

Further information

No data available.

6 Accidental release measures

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

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.



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.

Incompatible materials: None known based on information available.

8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

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

Exposure controls

Appropriate engineering controls

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.

[PPE=Personal Protection Equipment]

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).

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. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit



9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	Off White
Melting/freezing point	240-260°C

No further safety-relevant information is available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO ₂).

11. Toxicological information

Information on toxicological effects

Acute Toxicity	LD50 (oral - duck) 1.7 mg/kg
Skin corrosion/irritation:	no data available
Serious eye damage/eye irritation:	no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available
Carcinogenicity:	Probable human carcinogen. This compound has been designated by the IARC as Group 2A-Probably carcinogenic to humans.
Reproductive toxicity / Teratogenicity:	Probable human reproductive toxin/teratogen.
STOT-SE – single exposure (GHS):	no data available
STOT-RE – repeated exposure (GHS):	no data available
Aspiration hazard:	no data available

Potential Health Effects

Inhalation:	May be fatal if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation
Ingestion:	May be fatal if swallowed
Signs and Symptoms of Exposure	no data available
Additional information:	RTECS: GY1722000

12. Ecological Information

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



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

14. Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	UN 2811 - Toxic solid,	UN 2811 - Toxic solid,	UN 2811 - Toxic solid,	UN 2811 - Toxic solid,
UN proper shipping name	organic, n.o.s. (Aflatoxin B2)	organic, n.o.s. (Aflatoxin B2)	organic, n.o.s. (Aflatoxin B2)	organic, n.o.s. (Aflatoxin B2)
Transport Hazard Class & Packing Group	Class 6.1 pg I	Class 6.1 pg I	Class 6.1 pg I	Class 6.1 pg I

15. Regulatory information

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 not registered with the EU ECHA

CA: DSL/NDSL Status:

This product is not listed on the Canadian DSL/NDSL

16: Other information

Date of revision: 01 dec 2016

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 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

SDS Revision Date:
21-dec-2016 by MGC
Product: Aflatoxin B2 | Code
AFB | CAS 7220-81-71

