

# Safety Data Sheet: Aflatoxicol

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

### 1.1. Product identifiers

Product name	<b>Aflatoxicol</b>	Formula	<b>C<sub>17</sub>H<sub>14</sub>O<sub>6</sub></b>
Product Code	<b>AFX</b>	RTECS	<b>GY1934000</b>
CAS #	<b>29611-03-8</b>	Molecular weight	<b>314.3</b>
EC Number #	<b>249-727-7</b>	Substance?Mixture?	<b>Substance</b>
Date of version	<b>&lt;19 September, 2022&gt;</b>		
Synonyms	<ul style="list-style-type: none"> <li><b>Aflatoxin R0 natural epimer</b></li> <li><b>[1S-(1α,6αβ,9αβ)]-2,3,6a,9a-tetrahydro-1-hydroxy-4-methoxycyclopenta[c]furo[3',2':4,5]furo[2,3-h][1]benzopyran-11(1H)-one</b></li> </ul>		

### 1.2. Intended uses of the substance or mixture 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 or 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

### 1.5. Reach:

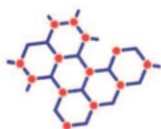
- Mentioned in Annex III inventory
- Preregistred substance
- See section 15

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### 2.1.1. GHS Classification:

Ingestion	Acute Tox. 2	H300	Fatal if swallowed
Inhalation	Acute Tox. 2	H330	Fatal if inhaled
Dermal contact	Acute Tox.1	H310	Fatal in contact with skin
Carcinogenicity	Carc 1A	H350	May cause cancer
Germ cell mutagenicity	Muta 1B	H340	May cause genetic defects
Reproduction toxicity	Repro 1B	H360	May damage fertility or an unborn child



## 2.2. GHS Label elements, including hazard and precautionary statements

Pictogram:  Signal word: {DANGER}

### 2.2.1. GHS Hazard Statements

<b>H300 + H310 + H330</b>	Fatal if swallowed, in contact with skin or if inhaled.
<b>H340</b>	May cause genetic defects.
<b>H350</b>	May cause cancer
<b>H360</b>	May damage fertility or the unborn child

### 2.2.2. GHS Precautionary Statements

<b>P201</b>	Obtain special instructions before use.
<b>P262</b>	Do not get in eyes, on skin, or on clothing
<b>P280</b>	Wear {protective gloves/protective clothing/eye protection/face protection}.
<b>P301+P310 + P330</b>	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
<b>P302 + P352 + P310</b>	IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor
<b>P304 + P340 + P310</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor
<b>P261</b>	Avoid breathing {dust/fume/gas/mist/vapors/spray}.
<b>P264</b>	Wash {hands} thoroughly after handling.
<b>GHS Response Phrases:</b>	
<b>P308+313</b>	If exposed or concerned: Get medical advice/attention

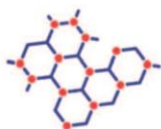
## 3. Composition/information on ingredients

<b>Substance</b>	
Substance name:	<b>Aflatoxicol</b>
Concentration	100%
	CAS Registry #: <b>29611</b>
	EC#: <b>249-727-7</b>
	Molecular Formula: <b>C17H14O6</b> Molecular Weight: <b>314.3</b>
Classification	Acute Tox. 1; Repro 1B, Muta. 1B; Carc. 1B; H350, H360, H330, H310, H340,
<b>Mixture?</b>	<b>Substance</b>

## 4. First Aid Measures

### 4.1. Description of First Aid Measures

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye contact:</b>	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.
<b>Skin Contact:</b>	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



<b>Inhalation:</b>	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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## 5. Fire-fighting measures

### 5.1. Extinguishing media

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

### 5.2. Other information

<b>Hazardous combustion products</b>	Carbon oxides,
<b>Advice for firefighters</b>	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

<b>Personal precautions</b>	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for containment:</b>	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.
<b>Methods for cleaning up:</b>	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

<b>Advice on safe handling:</b>	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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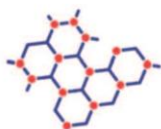
### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage Conditions:</b>	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.
<b>Incompatible materials:</b>	None known based on information available.

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

<b>Control parameters</b>	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 fumehood for routine work.

## 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.

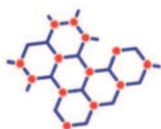
## 9. Physical and chemical properties

### 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
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Carbon oxides



## 11. Toxicological information

### 11.1. Information on toxicological effects

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

11.1.1. Acute Toxicity	
Oral	Oral, rat; LDLO = 1.5 mg/kg
Skin corrosion/irritation:	No quantitative data available
Serious eye damage/eye irritation:	No quantitative data available
Respiratory or skin sensitization/corrosion:	
11.1.2. CMR hazards	
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: Group 1B: Carcinogenic to humans (Aflatoxin M2)
Reproductive toxicity / Teratogenicity:	Laboratory results on structurally similar molecules have shown reproductive toxicity/teratogenicity in animal models.
11.1.3. Other hazards	
STOT-SE – single exposure (GHS):	No data available
Aspiration hazard:	No data available
11.1.4. Symptoms	
Symptoms	Vomiting, abdominal pain, hemorrhage, and pulmonary edema.

### 11.2. Additional information

RTECS number	GY1934000
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## 12. Ecological Information

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

## 13. Disposal Considerations

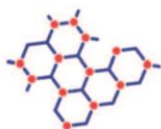
### 13.1. Waste treatment methods

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

## 14. Transport information

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

	US DOT	US DOT	US DOT	US DOT
UN Number UN proper shipping name	Un 2811 Toxic Solid, Organic, N.O.S (Aflatoxin M2)	Un 2811 Toxic Solid, Organic, N.O.S (Aflatoxin M2)	Un 2811 Toxic Solid, Organic, N.O.S (Aflatoxin M2)	Un 2811 Toxic Solid, Organic, N.O.S (Aflatoxin M2)
Transport Hazard Class & Packing Group	6.1 poison pg I	6.1 poison pg I	6.1 poison pg I	6.1 poison pg I



<b>Additional information</b>	Excepted quantities (EQ)	Code: E5	Maximum net quantity per inner packaging: 1 g	Maximum net quantity per outer packaging: 300 g
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## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation

<b>USA EPA / TSCA</b>	This product is not listed on the USA EPA TSCA
<b>EU ECHA Status</b>	This product is registered with the EU ECHA, Number <b>249-727-7</b> ANNEX III: <b>Listed</b> REACH: Preregistred.
<b>CA: DSL/NDSL Status</b>	This product is not listed on the Canadian DSL/NDSL

## 16. Other information

### **Date of revision:**

Monday, 19 September, 2022

### 16.1. 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.*

### 16.2. 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.

End of SDS

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