

Safety Data Sheet: Aflatoxicol

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

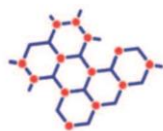
Product identifiers			
Product name	Aflatoxicol	CAS #	29611-03-8
Product Code	AFX	EC Number	249-727-7
Substance/mixture	Substance	Formula	C₁₇H₁₄O₆
RTECS	GY1934000	MW	314.3
SDS Version date	24 November 2020		
Synonyms	<ul style="list-style-type: none"> Aflatoxin R0 natural epimer [1S-(1α,6αβ,9αβ)]-2,3,6a,9a-tetrahydro-1-hydroxy-4-methoxycyclopenta[c]furo[3',2':4,5]furo[2,3-h][1]benzopyran-11(1H)-one 		
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		Emergency Telephone number	
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel		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			
REACH	Mentioned in Annex III inventory Preregistred substance		

2) Hazards identification

Classification of the substance or mixture

GHS Classification:

Acute Toxicity, Oral	Category 1	H300	Fatal if swallowed
Acute toxicity - Dermal	Category 1	H310	Fatal in contact with skin
Acute toxicity - Inhalation (Dusts/ Mists)		H330	Fatal if inhaled
Skin corrosion/irritation		H315	Causes skin irritation
Serious eye damage/eye irritation		H319	Causes serious eye irritation
Carcinogenicity	Category 1A	H350	May cause cancer
Specific target organ toxicity (single exposure)	Category 3	H335	May cause respiratory irritation



GHS Label elements, including precautionary statements

Contains Aflatoxicol



Pictogram:

Signal word: {DANGER}

GHS Hazard Statements

H350 - May cause cancer
H300 - Fatal if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H310 - Fatal in contact with skin
H330 - Fatal if inhaled

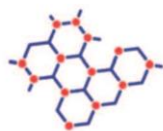
GHS Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P281 - Use personal protective equipment as required
P284 - Wear respiratory protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P310 - Immediately call a POISON CENTER or doctor/physician
P312 - Call a POISON CENTER or doctor if you feel unwell
P320 - Specific treatment is urgent (see Emergency Phone Number on this label)
P321 - Specific treatment (see Emergency Phone Number on this label)
P322 - Specific measures: see Emergency Phone Number on this label
P330 - Rinse mouth
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P361 - Remove/Take off immediately all contaminated clothing
P362 - Take off contaminated clothing and wash before reuse
P363 - Wash contaminated clothing before reuse
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

3) Composition/information on ingredients

Substance

Substance name:	Aflatoxicol
CAS Registry	29611-03-8
Synonyms	<ul style="list-style-type: none"> ○ Aflatoxicol ○ Aflatoxin R0 natural isomer ○ [1S-(1α,6$\alpha\beta$,9$\alpha\beta$)]-2,3,6a,9a-tetrahydro-1-hydroxy-4-methoxycyclopenta[c]furo[3',2':4,5]furo[2,3-h][1]benzopyran-11(1H)-one
EC number#:	249-727-7
Molecular Formula:	C ₁₇ H ₁₄ O ₆
Molecular Weight:	312.27
	Acute Toxicity, Oral (Category 3)
	Acute Toxicity, Inhalation (Category 3)
Concentration (weight/weight)	>98%
	Carcinogenicity (Category 2)



Mixture

Not mixture.

4) First Aid Measures

4.1 Description of First Aid Measures

General advice:

If medical attention is required, show this safety data sheet to the doctor.

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.

4.2 Symptoms and effects:

No information is available

4.3 Note to physicians:

Treat symptomatically

5) Fire-fighting measures

Extinguishing media

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

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.

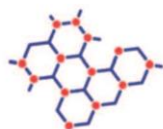
Methods and material for containment and cleaning up

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
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NIOSH Recommended Exposure Limits	No Data Available
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ACGIH Threshold Limit Values	No Data Available
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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.

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)

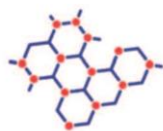
PPE: Skin and Body Protection:

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	white
Volatile?	No



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. Sunlight.
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon oxides

11) Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied

Acute Toxicity	
LD50 (oral - rat)	No data available
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:	Evidence of a carcinogenic effect. This compound has been designated by the IARC as Group 2B: Possibly carcinogenic to humans.
Reproductive toxicity / Teratogenicity:	No data available
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 harmful 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	Toxic if swallowed
Signs and Symptoms of Exposure	No information available.
Additional information:	RTECS: GY1934000

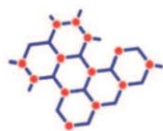
12) Ecological Information

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 proper shipping name	3462 Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	3462 Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	3462 Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	3462 Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)
Transport Hazard Class & Packing Group	6.1 Pg I	6.1 Pg I	6.1 Pg I	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 registered with the EU ECHA Reach: preregistered Annex III: Yes
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

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16) Other information

Date of revision: Tuesday, 24 November, 2020

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

