

Safety Data Sheet: Ochratoxin A

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

Product identifiers			
Product name	Ochratoxin A	Formula	C₂₀H₁₈ClNO₆
Product Code	OC	RTECS	AY4375000
CAS #	303-47-9	Molecular weight	404
EC Number #	206-143-7		

Intended uses of the substance or mixture and uses advised against	
Intended use	Uses advised against:
Only for Research and/or Development. To be used by qualified scientists only.	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	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	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: Pre-registered.

Section 2. Hazards identification

Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity; Oral	Category 2	H300	Fatal if swallowed
Aspiration toxicity	Category 1	H304	May be fatal if swallowed and enters airways
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Carcinogenicity	Category 2	H351	Suspected of causing cancer.
Reproductive toxicity	Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single exposure)	Category 3	H336	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure-Inhalation	Category 2	H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS Label elements, including precautionary statements

Pictogram:  Signal word: **Danger**

Hazard statements	
H300	Fatal if swallowed
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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/ vapours/ spray.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P301+ P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P308 + P313	P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P331	Do NOT induce vomiting

Section 3. Composition/information on ingredients

Substance	
Substance name:	Ochratoxin A
	CAS Registry #: 303-47-9 EC#: 206-143-7
	Molecular Formula: C₂₀H₁₈CINO₆ Molecular weight: 404
	Concentration: ≤ 100%
	Acute Tox. 2 (H300) Skin Irrit. 3 (H316) Carc. 2 (H351) Repr. 2 (H361fd) STOT RE 2 (H373) Aquatic Chronic 4 (H413) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H336)
Mixture	Not mixture.

Section 4. First Aid Measures

Description of First Aid Measures

General advice:	Immediate medical attention is 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. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. 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. 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. 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.

Note to physicians: Treat symptomatically

Section 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, Nitrogen oxides. Phosgene.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting. Wear protective suit.

Section 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	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.
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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 Limits:	None known, based on information available. <table border="0"> <tr> <td>OSHA Permissible Exposure Limits</td> <td>No Data Available</td> </tr> <tr> <td>NIOSH Recommended Exposure Limits</td> <td>No Data Available</td> </tr> <tr> <td>ACGIH Threshold Limit Values</td> <td>No Data Available</td> </tr> </table>	OSHA Permissible Exposure Limits	No Data Available	NIOSH Recommended Exposure Limits	No Data Available	ACGIH Threshold Limit Values	No Data Available
OSHA Permissible Exposure Limits	No Data Available						
NIOSH Recommended Exposure Limits	No Data Available						
ACGIH Threshold Limit Values	No Data Available						
Exposure 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.						
[PPE=Personal Protection 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 Eye/face protection	Wear safety glasses with side shields (or goggles). Optional face mask.
PPE Skin and Body Protection	Wear protective gloves and protective clothing. Gloves made of plastic or rubber. Suitable protective clothing. Suitable protective clothing. Apron.
PPE Respiratory Protection	Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Section 9. *Physical and chemical properties*

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	White to offwhite powder
Melting/freezing point	105°C-110°C
No further safety relevant data are available	

Section 10. *Stability and reactivity*

Melting/freezing point	105°C-110°C
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, Nitrogen oxides, Phosgen

Section 11. *Toxicological information*

Information on toxicological effects

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

Acute Toxicity	
Ingestion	Rat, oral, LD50=20 mg/kg Mouse, Oral, LD50=46 mg/kg
Inhalation	No quantitative data available
Serious eye damage/eye irritation:	No quantitative data available
Skin corrosion/irritation:	No quantitative data available
Respiratory or skin sensitization:	No quantitative data available
Germ cell mutagenicity:	No data available
Reproductive toxicity / Teratogenicity:	No quantitative data available
Aspiration hazard:	No quantitative data available
Additional information:	RTECS: AY4375000

Section 12. Ecological Information

Eco-Toxicity	May cause long lasting harmful effects to aquatic life.
Other adverse effects	No further relevant information available.
Persistence and degradability	No information available
Bioaccumulation	No information available
Mobility in soil	No information available
PBT and vPvB assessment	No 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 Do not reuse container.

Section 14. Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	UN3462	UN3462	UN3462	UN3462
UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s.	Toxins, extracted from living sources, solid, n.o.s.	Toxins, extracted from living sources, solid, n.o.s.	Toxins, extracted from living sources, solid, n.o.s.
Transport Hazard Class & Packing Group	6.1 PG II	6.1 PG II	6.1 PG II	6.1 PG II

Section 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; EC number 206-143-7 Listed: Annex III inventory Listed: EC Inventory Listed: REACH Pre-registered substances.
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

Section 16. Other information

Date of revision: 28 May 2017

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