

# Safety Data Sheet: Ochratoxin B

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

Product identifiers			
Product name	<b>Ochratoxin B</b>	Formula	<b>C<sub>20</sub>H<sub>19</sub>NO<sub>6</sub></b>
Product Code	<b>OCB</b>	RTECS	<b>SQ7331100</b>
CAS #	<b>4825-86-9</b>	Molecular weight	<b>369.40</b>
EC Number #	<b>621-766-8</b>		
Intended uses of the substance or mixture and uses advised against			
Intended use		Uses advised against:	
<b>Only for Research and/or Development. To be used by qualified scientists only.</b>		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	
<b>FERMENTEK Ltd</b> 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			
<b>Reach:</b> 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.			

## 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
Skin corrosion/irritation	Category 3	H316	Causes mild skin irritation
Germ Cell Mutagenicity	Category 2	H341	Suspected of causing genetic defects
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	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:	<b>Ochratoxin B</b>
	CAS Registry #: <b>4825-86-9</b> EC#: <b>Error! Reference source not found.</b>
	Molecular Formula: <b>C<sub>20</sub>H<sub>19</sub>NO<sub>6</sub></b> Molecular weight: <b>369.40</b>
	Concentration: <b>≤ 100%</b>
	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

<b>General advice:</b>	Immediate medical attention is required. If symptoms persist, call a physician
<b>Eye contact:</b>	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.
<b>Skin Contact:</b>	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
<b>Ingestion:</b>	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.
<b>Inhalation:</b>	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

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<b>Self-protection of the first aider:</b>	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.
<b>Note to physicians:</b>	Treat symptomatically

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	None
<b>Hazardous combustion products</b>	Carbon oxides, Nitrogen oxides. Phosgene.
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus for fire fighting. Wear protective suit.

## Section 6. Accidental release measures

### 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.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 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.

## Section 7. Handling and storage

### 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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### 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. Store at -20 °C, Protect from sunlight. Protect from moisture
<b>Incompatible materials:</b>	None known based on information available.

## Section 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

<b>Exposure Limits:</b>	None known, based on information available. OSHA Permissible Exposure Limits      No Data Available NIOSH Recommended Exposure Limits      No Data Available ACGIH Threshold Limit Values              No Data Available
<b>Exposure controls</b>	
<b>Engineering Controls</b>	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.

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[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
<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Sunlight.
<b>Incompatible materials</b>	Strong reducers and oxidizers
<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Hazardous decomposition products:</b>	Carbon oxides, Nitrogen oxides, Posgen

## 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:	May cause eye irritation.
Skin corrosion/irritation:	May be harmful if absorbed through skin Moderate skin irritant
Carcinogenicity	Evidence of a carcinogenic effect in a structurally related compound. A structurally related compound has been designated by the IARC as Group 2B: Possibly carcinogenic to humans.
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

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Additional information: RTECS: SQ7331100

## Section 12. Ecological Information

<b>Eco-Toxicity</b>	May cause long lasting harmful effects to aquatic life.
<b>Other adverse effects</b>	No further relevant information available.
<b>Persistence and degradability</b>	No information available
<b>Bioaccumulation</b>	No information available
<b>Mobility in soil</b>	No information available
<b>PBT and vPvB assessment</b>	No information available

## Section 13. Disposal Considerations

### Waste treatment methods

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

## Section 14. Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
<b>UN Number</b>	UN3462	UN3462	UN3462	UN3462
<b>UN proper shipping name</b>	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.
<b>Transport Hazard Class &amp; Packing Group</b>	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

<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; EC number 206-143-7 <b>Listed: EC Inventory</b>
<b>CA: DSL/NDSL Status</b>	This product is not listed on the Canadian DSL/NDSL

## Section 16. Other information

**Date of revision: 30 May, 2019**

### 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.

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