

Safety Data Sheet: Ophiobolin-B from FERMENTEK

Section 1. Identification of the Substance and of the Manufacturer

Product identifiers			
Product name	Ophiobolin-B	Formula	C ₂₅ H ₃₈ O ₄
Product Code	OPB	RTECS	N.A.
CAS #	5601-74-1	MW	402.6
ECHA Number	Not listed as on 10-2022	Mix or Substance?	Substance
Intended uses of the substance or mixture and uses advised against			
Intended use		Uses advised against:	
for Research and/or Development For industrial use To be used by qualified professionals 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	
This company is the manufacturer of the product, and the supplier of the safety data sheet		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	

Section 2. Hazards identification

This compound is not regarded hazardous according to 2012 OSHA standard (29 CFR 1910.122)

Classification of the substance or mixture

Not dangerous substance according to GHS

GHS Classification:

Not classifiable

GHS Label elements, including precautionary statements

Signal word: <none> Pictogram <none>

Hazard statement(s)

Not classified

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P308+P131	If exposed or concerned, get medical advice.

Section 3. Composition/information on ingredients

Substance	
Substance name:	Ophiobolin-B
	CAS Registry #:5601-74-1 EC#:Not listed as on 10-2022
	Molecular Formula: C ₂₅ H ₃₈ O ₄ Molecular Weight: 402.6
Mixture	Not mixture.

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Section 4. First Aid Measures

Description of First Aid Measures

General advice:	If medical attention is required, show this safety data sheet to the doctor.
Eye contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.

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,
Advice for firefighters	As in any fire, Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid dust formation. Avoid breathing vapours, mist or gas.

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.

Section 7. Handling and storage

Precautions for safe handling

Advice on safe handling: Handle according with good industrial hygiene and safety practice.

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.

Section 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

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Exposure controls

Appropriate engineering controls

Engineering Controls

Showers, Eyewash stations, Ventilation systems

General industrial hygiene practice.

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 recommendations below are based on good industrial hygiene and safety practice

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

Section 9. Physical and chemical properties

Physical State at room temperature	Solid / powder
Color	White
Melting temperature	212°C

No further safety relevant data are available

Section 10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Direct Sunlight.
Incompatible materials	Concentrated Strong reducers and oxidizers, strong acids and bases
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides

Section 11. Toxicological information

Information on toxicological effects

To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

Acute Toxicity	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

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Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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
Additional information:	RTECS: N.A

Section 12. Ecological Information

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

Section 14. Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name				
Transport Hazard Class & Packing Group	Not hazardous for transport. Not regulated	Not hazardous for transport. Not regulated	Not hazardous for transport. Not regulated	Not hazardous for transport. Not regulated
			Not marine pollutant	

Section 15. Regulatory information

Safety, health and environmental regulations/legislation		
USA EPA / TSCA	This product is not listed on the USA EPA TSCA (For research only)	
SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.	
US SARA 311/312	Acute health hazard	Yes
	Chronic Health Hazard	No
	Fire hazard	No
	Sudden release of pressure hazard	No
	Reactive hazard	No
CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).	
EU ECHA Status	This product is not registered with the EU ECHA	
EU CLP	Listed.	
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL	

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Section 16. Other information

Department issuing this SDS

- Quality systems and regulatory affairs

General 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.

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.

Abbreviations and acronyms:

Acute Tox.	Acute toxicity
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DOT:	US Department of Transportation
EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation
HMIS:	Hazardous Materials Identification System (USA)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose, Median
NFPA:	National Fire Protection Association (USA)
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative and Toxic
PEL:	Permissible Exposure Limit
PPE	Personal Protective Equipment
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
Skin Irrit:	Skin corrosion/irritation
STOT RE:	Specific Target Organ Toxicity (Repeated Exposure)
STOT SE:	Specific Target Organ Toxicity (Single Exposure)
TLV:	Threshold Limit Value
vPvB:	very Persistent and very Bioaccumulative

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End of SDS

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APPENDIX Source: <https://www.babelplex.com/a-guide-to-ghs-pictograms/>

<p>Toxic Acute toxicity (oral, dermal, inhalation) (cat. 1, 2, 3)</p> 	<p>Health Hazard Respiratory sensitization (cat. 1) Germ cell mutagenicity (cat. 1A, 1B, 2) Carcinogenicity (cat. 1A, 1B, 2) Reproductive toxicity (cat. 1A, 1B, 2) Specific target organ toxicity following single exposure (cat. 1, 2) Specific target organ toxicity following repeated exposure (cat. 1A, 1B, 2) Aspiration hazard (cat. 1, 2)</p> 	<p>Irritant Acute toxicity (oral, dermal, inhalation) (cat. 4) Skin irritation (cat. 2, 3) Eye irritation (cat. 2A) Skin sensitization (cat. 1) Specific target organ toxicity following single exposure (cat. 3) Respiratory tract irritation Narcotic effects</p> 
<p>Corrosive Corrosive to metals (cat. 1) Skin corrosion (cat. 1A, 1B, 1C) Serious eye damage (cat. 1)</p> 	<p>Environmentally Damaging Acute hazards to the aquatic environment (cat.1) Chronic hazards to the aquatic environment (cat. 1, 2)</p> 