



# Safety Data Sheet:

## Destruxin-B-| Fermentek

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

#### 1.1 Product identifier

CAS # **RN 2503-26-6**  
Product name: **Destruxin-B-| Fermentek**  
Product Code **DSB**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Recommended use:

Laboratory chemicals,  
Manufacture of substances,  
Research.

##### Uses advised against

Not for drug,  
Not to be used in humans or animals.  
Not food additive

#### 1.3 Details of the manufacturer and supplier of the safety data sheet

##### Company: **FERMENTEK Ltd**

4 Yatziv street  
POB 47120  
Jerusalem 97800,  
Israel

**This company is the manufacturer of the product,  
and the supplier of the safety data sheet**

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

#### 1.5 REACH

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



## 2 Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute toxicity, Oral	(Category 4), H302
Acute toxicity, Inhalation	(Category 4), H332
Acute toxicity, Dermal	(Category 4), H312
Skin irritation	(Category 2), H315
Eye irritation	(Category 2A), H319
Specific target organ toxicity - single exposure	(Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements



Pictogram:

#### Signal word:

Warning

#### Hazard statement(s)

H302 + H312 + H332

Harmful if swallowed, in contact with skin or if inhaled

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

#### 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.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/ eye protection/ face protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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.

P312

Call a POISON CENTER or doctor/ physician if you feel unwell.

P322

Specific measures (see supplemental first aid instructions 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.

P362

Take off contaminated clothing and wash 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

**Hazards not otherwise classified (HNOC) or not covered by GHS – none**



## SECTION 3: Composition/information on ingredients

### 3.1 Substance

This product is a pure compound.

Synonyms:

Formula: **C<sub>30</sub>H<sub>51</sub>N<sub>5</sub>O<sub>7</sub>**  
Molecular Weight: 593.7  
CAS-No. : 2503-26-6  
Chemical characterization: Natural product; extracted from fungal biomass.

#### Hazardous components

Component	Classification	Concentration
Destruxin A	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302 + H312 + H332, H315, H319, H335	90% to 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16

## 4 First Aid Measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

No data available

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## 6 Accidental release measures

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### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

### 6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal. (see section 13)

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## 7. Handling and storage

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### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place. Fermentek's recommendation: store in a freezer.

### 7.3 Specific end uses

Specific uses:

See section 1.2

Exposure scenario:

No information available.



## 8. Exposure Controls/Personal Protection

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

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).

##### Skin 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of intended use by our users. It should remain under the responsibility of the users to select the protective equipment according to the nature of the intended use(s)

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### 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).

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and chemical properties

### Physical / chemical properties

Physical State at room temperature      Solid

**Further data relevant for classification:    None available**

## 10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions. May be light-sensitive.
Precautionary Statements:	None under normal processing.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Hazardous decomposition products:	Carbon monoxide (CO); Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides

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## 11. Toxicological information

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RTECS number HH1500100

### 11.1 Information on toxicological effects

**Quantitative toxicity data:**

Mouse, intraperitoneal, LDLo=1.35mg/kg. Effects: COMA, convulsions or effect on seizure threshold. Agricultural and Biological Chemistry. Vol. 26, Pg. 36, 1962

**Remark:** This product is toxic to insects and to plants

**IARC:**

This substance is not identified as human carcinogen.

This substance is not known to be a Mutagen, Teratogen, and/or Genotoxic.

**Additional information:**

May be eye-irritant.

**To the best of our knowledge, the toxicological, chemical and physical properties of this substance have not been investigated sufficiently.**

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## 12. Ecological Information

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**Toxicity**

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

**Behaviour in environmental systems:**

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

**Results of PBT and vPvB assessment**

PBT: This substance is not considered to be persistent, bioaccumulating or toxic.

vPvB: This substance is not considered to be very persistent, nor very bioaccumulating.

Other adverse effects: No further relevant information available.

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## 13. Disposal Considerations

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### 13.1 Waste treatment methods

**Waste from residues unused products:**

*Dispose of in accordance with local regulations.*

**Contaminated packaging:**

*Dispose of as unused product*



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## 14. Transport information

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**14.1 UN number:** *n.a.*

**14.2 UN proper shipping name**

- US DOT: Not dangerous goods
- ADR/RID: Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods

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## 15. Regulatory information

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**15.1 Safety, health and environmental regulations/legislation specific for the**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard.

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## 16: Other information

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**Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**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 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-----

*Product name: Destruxin-B  
Reviewed by MFS on 28.8.2016  
Checked by: [Signature]*