



Safety Data Sheet: Enniatin B1 | Fermentek

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

1.1 Product identifier

Product Code: **ENB1-**

Product name: **Enniatin B1 | Fermentek**

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**
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

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

Classification of the Substance:

- Acute Toxicity: Inhalation, Category 3
- Acute Toxicity: Oral, Category 3
- Acute Toxicity: Skin, Category 3

Label Elements:

GHS Signal Word: Danger

GHS Hazard Phrases:

H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.

GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.
P264: Wash {hands} thoroughly after handling.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311: Call a POISON CENTER or doctor/physician.
P321: Specific treatment {see ... on this label}. P330: Rinse mouth.
P361: Remove/Take off immediately all contaminated clothing. P363: Wash contaminated clothing before reuse.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P320 Specific treatment is urgent (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Adverse Human Health

May be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms:

May cause eye, skin, or respiratory system irritation.
Toxic if inhaled. swallowed or in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.





SECTION 3: Composition/information on ingredients

3.1 Substance

This product is a pure compound.

Synonyms: 2-(N-Methyl-L-isoleucine) Enniatin B

Formula: C₃₄H₅₉N₃O₉

Molecular Weight: 653.8

CAS-No. : CAS-No. : 19914-20-6

RTECS:

Chemical characterization: Natural product; extracted from fungal biomass

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 most important known 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.



6 Accidental release measures

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)

7. Handling and storage

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.
The product is light sensitive.

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 WHITE POWDER
pH	No information available
Melting/freezing point	No information 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 ₂) Nitrogen oxides

11. Toxicological information

11.1 Information on toxicological effects

Quantitative toxicity data:

No quantitative toxicity data have been found in the accessible literature.

Potential health effects

Inhalation Toxic if inhaled. May cause respiratory tract irritation. Ingestion Toxic if swallowed. Skin Toxic if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Signs

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.

Signs and Symptoms of Exposure

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

RTECS:

Not available

12. Ecological Information

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.

13. Disposal Considerations

13.1 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

14.1 UN number

UN number: 3462 Class: 6.1 Packing group: III

14.2 UN proper shipping name

Toxins, extracted from living sources, solid, n.o.s. (ENNIATIN B)

Marine pollutant: No

Poison Inhalation Hazard: No

SMALL QUANTITIES EXCEPTION INFORMATION:

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

15. Regulatory information

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16: Other information

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

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

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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

