

Page 1 of 9



Safety Data Sheet: Enniatin-A1 | Fermentek

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

1.1 Product identifiers

Product Code: **ENA1-**

Product name: Enniatin-A1 | Fermentek

CAS number: **4530-21-6**

1.2 Relevant identified uses of the substance 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

Street address 4 Yatziv street, POB 47120

Jerusalem 97800, Israel

Tel: +972 2 5853953 Fax: +972 2 5853943

eMail fermentek@fermentek.com
Website: www.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.





Page 2 of 9



SECTION 2.: Hazards identification

2.1 Classification of the substance

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

Acute toxicity, Oral (Category 3), H301 Toxic if swallowed. Acute toxicity, Inhalation (Category 3), H331 Toxic if inhaled.

Acute toxicity, Dermal (Category 3), H311

Toxic in contact with skin

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word:

Danger

GHS Hazard Phrases:

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

GHS Hazard statements

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

GHS Precautionary statements

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/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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.

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.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing 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.





Page 3 of 9



SECTION 3: Composition/information on ingredients

3.1 Substance

This product is a pure compound.

Synonyms: 2(N-Methyl-L-valine) Enniatin A

 Formula :
 C35H61N309

 Molecular weight :
 667.87 g/mol

 CAS-No. :
 4530-21-6

Component	Classification	Concentration
Enniatin A1	Acute Tox. 3; H301 + H311 + H331 (Toxic if swallowed, in contact with skin or if inhaled)	<= 100 %

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

Note to physicians Treat symptomatically



Page 3 of 9



Page 4 of 9



5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures which are appropriate to local circumstances and the surrounding environment, such as water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

None.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Nitrogen oxides.

5.3 Advice for firefighters

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

No data available





Page 5 of 9



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)

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust.

Clean contaminated surface thoroughly.

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.

Keep container tightly closed in a dry and well-ventilated place at -20° C The product is light sensitive.

7.3 Incompatibilities:

No incompatibilities are known

7.4 Specific end uses

Specific uses: See section 1.2

Exposure scenario: No information available.



Page 5 of 9



Page 6 of 9



8. Exposure Controls/Personal Protection

8.2 Exposure controls

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational Exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

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

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice

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, powder

pH No information available
Melting/freezing point No information available
Flash Point No information available
Flammability (solid, gas) No information available
Vapor pressure No information available
Vapor density No information available



Page 6 of 9



Page 7 of 9



10. Stability and reactivity

Reactivity: No information available.
Chemical stability: Stable under normal conditions.

May be light-sensitive.

Precautionary Statements:

Conditions to avoid

Incompatible materials

None under normal processing.

Heat, flames and sparks

Strong reducers and exidizers

Hazardous decomposition products: Carbon monoxide (CO); Carbon dioxide (CO2); Nitrogen oxides (NOx).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicityNo data availableInhalation:No data availableDermal:No data available

Skin corrosion/irritationNo data availableEye irritationNo data availableRespiratory/skin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity Not identified as carcinogen, known, probable or potential by any of the

following: IARC / ACGIH / NTP / OSHA:

Reproductive toxicity: No data available

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

12. Ecological Information

Toxicity No relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential: No relevant information available. Mobility in soil: No relevant information available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not

required/not conducted

Other adverse effects No further relevant information available.



Page 7 of 9



Page 8 of 9



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. Do not reuse containers.

14. Transport information

DOT (US)

UN number: 3462 Class: 6.1 Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Enniatin A1)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 3462 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. Enniatin A1)

IATA

UN number: 3462 Class: 6.1 Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Enniatin A1)

15. Regulatory information

SARA 302 Components

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

SARA 313 Components

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

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Enniatin A1

CAS-No 4530-21-6

New Jersey Right To Know Components

Enniatin A1

CAS-No. 4530-21-6

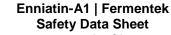
California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



Page 8 of 9





Page 9 of 9



16: Other information

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---

Date of revision: 26.07.2016

