

Safety Data Sheet: Netropsin 2HCl

1. Identification of the substance and the Manufacturer

1.1. Product identifiers

Product name	Netropsin 2HCl	Formula	C ₁₈ H ₂₆ N ₁₀ O ₃ ·(HCl) ₂
Product Code	NE	RTECS	DW2974000
CAS #	18133-22-7	Molecular weight	503.39
EC Number #	634-294-2	Substance? Mixture?	Substance
Synonyms	Congocidin	Sinanomycin	Netropsin
	N,4'-Bi(pyrrole-2-carboxamide), N'-(2-carbamoylethyl)-4-((2-guanidinoacetimidoyl)amino)-1,1'-dimethyl-, dihydrochloride		
Source	Streptomyces netropsis	Date of version	11 October, 2024

1.2. Intended uses of the substance or mixture and uses advised against

1.2.1. Intended use:	1.2.2. Uses advised against:
Research and development. Laboratory reagent. Reference material. Manufacturing of substances.	Not for drug, Not to be used in humans or animals. Not food additive

1.3. Details of the manufacturer/supplier of the SDS

FERMENTEK ltd
 4 Yatziv street, POB 47120
 Jerusalem 97800,
 Israel

Tel: +972 2 5853953
 Fax: +972 2 5853943
 eMail: Fermentek@Fermentek.com
Safety@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

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

1.5. Reach:

See section 15

2. Hazards' identification

2.1. Classification of the substance or mixture

2.1.1. GHS Classification According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2.1. **Pictogram:** {None}

2.2.2. **Signal word:** {None}

2.2.3. **Hazard Statements**

Safety Data Sheet: Netropsin 2HCl

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2.4. **GHS Precautionary Statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash face, hands and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product

3. **Composition/information on ingredients**

Substance	
Substance name:	Netropsin 2HCl
Concentration	<=100%
CAS Registry#:	18133-22-7
EC#:	634-294-2
Molecular Formula:	C ₁₈ H ₂₆ N ₁₀ O ₃ ·(HCl) ₂
Molecular Weight:	503.39
Classification	Not classifiable

4. **First Aid Measures**

4.1. **Description of First Aid Measures**

General advice:	If medical attention is required, consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact:	Flush with plenty of water as a precaution.
Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink. Consult a physician.
Inhalation:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. If not breathing, give artificial respiration. Consult a physician.

4.2. **Most important symptoms and effects, both acute and delayed**

General symptoms	None known
------------------	------------

4.3. **Indication of any immediate medical attention and special treatment needed**

Note to physicians	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.
Unsuitable extinguishing media	None known

5.2. **Other information**

Safety Data Sheet: Netropsin 2HCl

Hazardous combustion products	Carbon oxides, Nitrogen oxides (NO _x). Sulphur oxides (S _x O _y)
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
----------------------	--

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
---------------------------	---

6.3. 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:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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.
--------------------------	---

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:	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.
--------------------------	--

7.2. 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.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	Components with workplace control parameters
--------------------	--

8.2. Exposure controls

Appropriate engineering controls	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.
----------------------------------	---

Safety Data Sheet: Netropsin 2HCl

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]	
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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. 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	White to slight yellow
Melting/freezing point	Decomposes at 246°C-256°C
No further safety relevant data are available	

10. Stability and reactivity

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

Safety Data Sheet: Netropsin 2HCl

11. Toxicological information

11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

11.1.1. Acute Toxicity

Oral toxicity:	Mouse, Oral, LD50>300 mg/kg (<i>Journal of the American Chemical Society.</i> , 73(341), 1951)
Serious eye damage	No data available
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	Nutagenicity observed in bacteria
Carcinogenicity:	No data available
Reproductive toxicity / Teratogenicity:	No data available

11.2. Additional information

RTECS number	DW2974000
General symptoms	No data available

12. Ecological Information

<i>Eco-Toxicity</i>	Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. No further relevant information available
<i>Other adverse effects</i>	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, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	US DOT	US DOT	US DOT
UN Number	Not dangerous for transport	Not dangerous for transport	Not dangerous for transport	Not dangerous for transport
UN proper shipping name	(Netropsin 2HCl)	(Netropsin 2HCl)	(Netropsin 2HCl)	(Netropsin 2HCl)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

14.2. Additional information

			Not marine pollutant	
--	--	--	----------------------	--

Safety Data Sheet: Netropsin 2HCl

Excerpted quantities	Not applicable			
De Minimis exemption	Not applicable			

15. **Regulatory information**

15.1. **Safety, health and environmental regulations/legislation**

USA EPA/TSCA	This product is not listed on the USA EPA TSCA (it is for research)
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	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.
SARA 311/312 Hazard Categories	No SARA Hazards
California Proposition 65	This product does not contain any Proposition 65 chemicals.
EU ECHA Status	This product is REGISTERED with the EU ECHA, Number 634-294-2 ANNEX III Not Listed REACH: Not Preregistered

16. **Other information**

16.1. **Department issuing this SDS**

- *Quality systems and regulatory affairs*

16.2. **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.*

16.3. **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.*

16.4. **Abbreviations and acronyms:**

- *IMDG: International Maritime Code for Dangerous Goods*
- *DOT: US Department of Transportation*
- *IATA: International Air Transport Association*
- *EINECS: European Inventory of Existing Commercial Chemical Substances*
- *CAS: Chemical Abstracts Service (division of the American Chemical Society)*
- *NFPA: National Fire Protection Association (USA)*
- *HMIS: Hazardous Materials Identification System (USA)*
- *LC50: Lethal concentration, Median*
- *LD50: Lethal dose, Median*
- *PBT: Persistent, Bioaccumulative and Toxic*
- *vPvB: very Persistent and very Bioaccumulative*

Safety Data Sheet: Netropsin 2HCl

- *NIOSH: National Institute for Occupational Safety*
- *OSHA: Occupational Safety & Health*
- *TLV: Threshold Limit Value*
- *PEL: Permissible Exposure Limit*
- *REL: Recommended Exposure Limit*
- *Acute Tox.: Acute toxicity*
- *Skin Irrit: Skin corrosion/irritation*
- *Eye Dam.: Serious eye damage/eye irritation*
- *Repr.: Reproductive toxicity*
- *STOT RE: Specific target organ toxicity (repeated exposure)*
- *STOT SE: Specific target organ toxicity (Single exposure)*

16.5. No-Copyright statement



Fermentek does not claim any copyright regarding the information contained in this SDS document.

Fermentek believes that no SDS document should be copyrighted, because information presented in a SDS comes from public domain websites .

Fermentek explicitly releases this document into the public domain.

16.6. End of SDS