Safety Data Sheet

Myriocin

Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

1.2. Intended uses of the Substance and uses advised against

Product name	*Myriocin*	*Formula*	*$C_{21}H_{39}NO_6$*
Product Code	*MYR*	*Molecular weight*	*401.5 g/mol*
CAS#	*35891-70-4*	*Mixture?*	*Substance*
ECHA#	*636-862-5*	*RTECS*	*JX3890000*
Comptox EPA	*9046360*	*PUBCHEM*	*Myriocin*
		CHEBI	*CHEBI:582124*

Synonyms and other names	*Myriocin*	*Thermozymocidin*	*ISP-1*
	• *(2S,3R,4R,6E)-2-Amino-3,4-dihydroxy-2-(hydroxymethyl)-14-oxo-6-eicosenoic acid* • *6-Eicosenoic acid, 2-amino-3,4-dihydroxy-2-(hydroxymethyl)-14-oxo-, (2S-(2R*,3S*,4S*,6E))-*		

Source	*From: Mycelia sterilia (fungus)*	*Vers Date*	*30 September, 2024*

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

1.3. Contacts

1.3.1. Details of the 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: Fermentek.com*
This company is the manufacturer of the product and the supplier of the safety data sheet	
1.3.2. 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*	

2. Hazards' identification.

2.1. Classification of the Substance .

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

Accute toxicity: Oral	Category 3	H301	Toxic if swallowed

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: {  **} Signal word: {Danger}**

2.2.2. Hazard Statements

H301	Toxic if swallowed

2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4. GHS Response Phrases:

P301+P316, P330	IF SWALLOWED: Get emergency medical help immediately.Rinse mouth.

3. Composition/information on ingredients

Substance	
Substance Name:	Myriocin
Concentration	<=100%
CAS Registry#:	35891-70-4
EC#:	636-862-5
Molecular Formula:	$C_{21}H_{39}NO_6$
Molecular Weight:	401.5 g/mol
Classification	Acc O:3 (H301)
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.

Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

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

General symptoms	See section 11

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

Hazardous combustion products	Carbon oxides, Nitrogene oxides $C_{21}H_{39}NO_6$
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 the powder spill with a 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 the powder spill with a 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

Attiention:
Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.
The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.
All recommendations included in this document are advisory in nature

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 fume-hood for routine work.

8.3. Personal protective equipment

[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. 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

The information given here does not purport specification of warranty of any kind. It 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.

9.1. Physical/chemical properties

Physical State at room temperature	Solid
Appearance	White to Off-White powder
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 exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute Toxicity

Acute toxicity:	Oral, Mouse, LD50=300 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. Chronic toxicity

Chronic toxicity	No data available

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	No data available

11.2. Additional information

RTECS number	JX3890000
General symptoms	**Liver** - other changes Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - other transferases **Endocrine** - changes in thymus weight **Biochemical** - Neurotransmitters or modulators (putative) - catecholamine levels in CNS ; dopamine in striatum.

12. Ecological Information

Eco-Toxicity	No data available
Other adverse effects	No data available

13. Disposal Considerations

13.1. Waste treatment methods

Waste Disposal	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

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Myriocin)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Myriocin)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Myriocin)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Myriocin)
Transport hazard Class, Packing group	6.1 poison Packing group PGIII (Myriocin)	6.1 poison Packing group PGIII (Myriocin)	6.1 poison Packing group PGIII (Myriocin)	6.1 poison Packing group PGIII (Myriocin)
Comments		Not marine polutant		

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)
EU ECHA Status	This product is registered with the EU ECHA, Number 636-862-5 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

16. Other information

16.1. Version information

Version date: 8-2024	Revised.

16.2. Department issuing this SDS

Quality systems and regulatory affairs

16.3. 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 explicitly specified in the text.

16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances.
Therefore, the employer/user should perform a risk assessment by prior to the use of this product. The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.
All recommendations included in this document are advisory in nature.

16.5. No © copyright

16.6. End of SDS

Appendix A : Abbreviations and acronyms:

	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active on glass screens, not on paper.
Synthetic / From	*"Synthetic" means this compound has been manufactured by chemical conversion of another product of ours.*
	"From" means the compound was extracted from biomass, whther algal, fungal, microbial or plant material
Mixture/Substance	*Mixture means there are two or more pure substances mixed purposely. Not including cases of two or more substances which naturally occur together and are sold unseparated*
Acute Tox.:	*Acute toxicity*
CAS:	*Chemical Abstracts Service*
ChEBI	*Chemical Entities of Biological Interest*
Comptox	*CompTox Chemicals Dashboard Resource Hub (EPA)*
DOT:	*US Department of Transportation*
ECHA	*European Chemicals Agency*
EINECS:	*European Inventory of Existing Commercial Chemical Substances*
EPA	*United States Environmental Protection Agency*
Eye Dam.:	*Serious eye damage/eye irritation*
HSDB	*Hazardous Substances Data Bank*
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*
LDL0	*Letal dose, leatst published*
NDG	*Not dangerous goods (for transport)*
NFPA:	*National Fire Protection Association USA*
NIOSH:	*National Institute for Occupational Safety*
NOAEL	*No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test*
OSHA:	*Occupational Safety & Health*
PBT:	*Persistent, Bioaccumulative, and Toxic*
PEL:	*Permissible Exposure Limit*
PubChem	*An open chemistry database at the National Institutes of Health (NIH). "*
REL:	*Recommended Exposure Limit*
Repr.:	*Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.*
RTECS:	*Registry of Toxic Effects of Chemical Substances. Not free.*
Skin Irrit:	*Skin corrosion/irritation*
STOT/SE	*Specific target organ toxicity/Single exposure*
STOT/RE	*Specific target organ toxicity/Repeated exposure*
T3DB	*Toxin and Toxin Target Database*
TDL0	*Toxic dose, least published*