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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	Enterocin (Vulgamycin)	Formu	la	C22H20O10
Product Code	VUL	RTECS	7	PB9245500
CAS#	59678-46-5	Molecu	ılar weight	158.11 g/mol
ЕСНА#	Not listed (2023)	Substan	nce? Mixture?	Substance
HSDB#	Not listed (2023)			
Drug bank#	Not listed (2023)			
T3DB#	Not listed (2023)			
Synonyms	Enterocin; Vulgamycin			
Source	Streptomyces sp. prunicolor		Version Date	26 November, 2023

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use: 1.2.2. Uses advised against:

Research and development. Not a drug,

Laboratory reagent. Not a food additive

Reference material. Not to be used in humans or animals.

Manufacturing of substances.

To be used by professionals only

1.3. Contacts

1.3.1. Details of the supplier of the SDS

FERMENTEK ltd Tel: +972 2 5853953 4 Yatziv street, POB 47120 Fax: +972 2 5853943

Jerusalem 97800, eMail: <u>Fermentek@Fermentek.com</u>

Israel 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

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2. Hazards' identification.

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

2.1. Classification of the Substance.

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

Not hazardous, not classified

See comments in section 11 below

2.2. GHS Label elements, including precautionary statements

2.2.1. Hazard Statements

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

2.2.2. 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

2.2.3. GHS Response Phrases:

P301+P316+P330 IF SWALLOWED: Rinse mouth.

3. Composition/information on ingredients

Substance	
Substance Name:	Enterocin (Vulgamycin)
Concentration	<=100%
CAS Registry#:	59678-46-5
EC#:	Not listed (2023)
Molecular Formula:	C22H20O10
Molecular Weight:	158.11 g/mol
Classification	Not classifiable)
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

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General advice:	If medical attention is required, show this safety data sheet to the doctor in attendance.
Eye contact:	Rinse out with plenty of water. Remove contact lenses.
Skin Contact:	In case of skin contact: Take off contaminated clothing. Rinse skin with water/ shower.

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

advice immediatel, if feeling unwell.

Inhalation: If inhaled, move the person into fresh air.

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 toxicity has been reported on intraperitoneal injection or P\O intake*

5. Fire-fighting measures.

5.1. Extinguishing media.

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing	None known
media	

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Hazardous combustion products	Carbon oxides Formula C22H20O10
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

Accidental release measures **6.**

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.

Handling and storage *7*.

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.

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7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Storage Conditions:

Keep out of the reach of children.

Store at -20 °C.

Must only be kept in original packaging. Suitable packaging

Incompatible materials: None known based on information available.

Exposure Controls/Personal Protection 8.

8.1. Control parameters

Control parameters Components with workplace control parameters

Exposure controls *8.2.*

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:

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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.

Physical and chemical properties 9.

9.1. Physical/chemical properties

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Physical State at room	Solid
temperature	

Appearance Powder, White

No further safety relevant data are available

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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

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

11.1.1. Acute Toxicity

Acute toxicity:	None.
Skin corrosion/irritation:	Comment: Some other authors classified this compound as skin and eyes
Serious eye damage/eye irritation:	irritant, and hazardous when swallowed or inhaled. This claim contradicts the data in the original publication: "Mice injected with 500 mg/kg intraperitoneally or administered with 1,000 mg/kg orally of
Respiratory or skin sensitization/corrosion:	enterocin did not result in death after 14 days" No other supporting information could be located.
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11.1.2. Chronic toxicity

Chronic toxicity No data available

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

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

11.2. Additional information

RTECS number	PB9245500
General symptoms	No data available

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

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14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID	IATA	IMDG
UN Number	UN number: none (not	UN number: none (not	UN number: none (not	UN number: none (not regulated) (Enterocin (Vulgamycin))
UN proper shipping	regulated) (Enterocin	regulated) (Enterocin	regulated) (Enterocin	
name	(Vulgamycin))	(Vulgamycin))	(Vulgamycin))	
Transport Hazard Class & Packing Group	Not hazardous	Not hazardous	Not hazardous	Not hazardous
	Not regulated	Not regulated	Not regulated	Not regulated

14.2.

Comment: Some other writers state, this product is suspected as 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
EU ECHA Status	This product Not listed (2023) REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

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 proces, unless specified in the text.

16.3. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the 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. No-Copyright statement

Fermentek does not claim © copyright on this document.

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16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
DOT:	US Department of Transportation
ЕСНА	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
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
NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry of Toxic Effects of Chemical Substances
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

16.6. End of SDS

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