





SDS Valinomycin vers 08-2024.docx

1. Identification of the Substance and the Manufacturer

Product name Valinomycin № Formula C54H90N6018 Product Code VAL Molecular weight 1111.3 g/mol CAS# 2001-95-8 (11005-80-4) Mixture? Substance ECHA# 217-896-6 ℃ PUBCHEM 2001-95-8 ℃ HSDB 6423 ℃ PUBCHEM 2001-95-8 ℃ Drug bank# DB14057 ℃ RTECS -YV9468000- Drug bank# DB14057 ℃ T3DB# Not listed @sept-2024 Comptox EPA 9041150 ℃ PUBCHEM CHEBI CHEBI:28545 Synonyms and other names Valino Potassium ionorbor I Antibiotic N-329 B Z1 January, 2025 Source From: Streytwyces fulvisemus Vers Date Z1 January, 2025 Ist.1 Intended use: Ist.2 Uses advised against: Z Ist.1. Intended use: Ist.2 Uses advised against: Z Z Ist.3. Contacts Not a drug, Not a drug, S Z Ist.3. Contacts Tel: +972 2 5853953 S S S Istrael Fermentek.com Safety@ Fermentek.com Safety@ Fermentek.com </th <th>1.1. Product</th> <th>identifiers</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	1.1. Product	identifiers							
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	Israel				Safety@Fermentek.com		com		
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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.

2.1. Classification of the Substance.

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

~					
Substance	<i>y</i>				
3. Composition/ii	nformation o	on ingre	edients		
P310	Immediately	v call a PC	DISON CENTER or doctor/physician.		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.			• •		
P308+P313	313 IF exposed or concerned: Get medical advice/attention.				
P363	Wash conta	Wash contaminated clothing before reuse.			
P361	Take off imm	nediately d	all contaminated clothing.		
P310	Immediately	Immediately call a POISON CENTER or doctor/physician.			
P302+P350	IF ON SKIN	V: Gently v	wash with plenty of soap and water.		
P301+P310, P330		OWED: Im	mediately call a POISON CENTER/doctor. Rinse		
2.1.5. GHS Response Phr	-	icar ing pro	ole non		
P280	-	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection			
P272	Contaminat	Contaminated work clothing should not be allowed out of the workplace.			
P270	Do not eat,	Do not eat, drink or smoke when using this product.			
P264	Wash {hand	Wash {hands} thoroughly after handling.			
P261	Avoid breat	-			
P203		d and follo	ow all safety instructions before use.		
2.1.4. GHS Precautionary		ous eye aa	image		
H318	Causes serie				
H300 H310	Fatal if swa Fatal in con		alia		
2.1.2. Pictogram: { 2.1.3. Hazard Statements	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		e r }		
2.1.1. GHS Label elements, including precautionary statements					
Serious eye irritation	Category 1	H318	Causes serious eye damage		
Accute toxicity: Dermal	Category 2	H310	Fatal in contact with skin		
Accute toxicity: Oral	Category 1	H300	Fatal if swallowed		

Substance Name:

Valinomycin









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

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Conc	entration	<=100%			
CAS Registry#:		2001-95-8			
<i>EC#</i> :		217-896-6			
Mole	cular Formula:	C54H90N6O18			
Mole	cular Weight:	1111.3 g/mol			
Class	rification	Acc 0:1 (H300)			
Mixtu	ıre?	Substance			
<i>4</i> .	First Aid Measur	es.			
<i>4.1</i> .	Description of First	Aid Measures.			
Gene	ral advice:	First-aiders need to protect themselves.			
		If medical attention is required, show this safety data sheet to the doctor in attendance.			
Inges	tion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.			
4.2.	Most important sym	ptoms and effects, both acute and delayed			
Gene	ral symptoms	See section 11			
<i>4.3</i> .	Indication of any in	nmediate medical attention and special treatment needed			
Note	to physicians	No data available			
5. 5.1.	Fire-fighting med Extinguishing medi				
	ble extinguishing media	<i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i>			
	0 0	None known			
media	itable extinguishing a	None known			
5.2.	Other information				
Haza prodi	rdous combustion	Carbon oxides, Nitrogene oxides < C54H90N6O18 >			
Advic	e for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.			
6.	Accidental releas	e measures			
<i>6.1</i> .	Personal precaution	ns, protective equipment, and emergency procedures			
Perso	onal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.			
<i>6.2</i> .	Environmental pred	cautions			
Envir	conmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.			









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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.
9 Europauro Contro	la / Dava and al Dructa ation

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









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8.2. Exposure controls

Appropriate engineering	Showers, Eyewash stations, Ventilation systems
controls	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 powder

No further safety relevant data are available

T. +972-2-5853953 F. +972-2-5853943

10. Stability and reactivity

4 Yatziv St., P.O.B. 47120,

Reactivity:

No information available.







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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:	Oral, Rat, LD50= 4 mg/kg Oral, Mouse, LD50=2.5 mg/kg On Skin, Rabbit LD50=5 mg/kg Intraperitoneal, mouse, LD50=0.39 mg/kg No other acute toxicity available.		
Skin corrosion/irritation:	Mildly irritating to the skin		
Serious eye damage/eye irritation:	Very hazardous. Corrosive to ocular tissue (Manufacturer's report)		
Respiratory or skin sensitization/corrosion:	No data available		
11.1.2. Chronic toxicity			
Chronic toxicity	No data available		
11.1.3. CRM (Carcinogene, Mutag	ene, Reproductive hazards)		
Germ cell mutagenicity:	No data available		
Carcinogenicity:	Not classified by IARC		
<i>Reproductive toxicity / Teratogenicity:</i>	No data available		
11.2. Additional information			
RTECS number	-YV9468000-		
General symptoms			
12. Ecological Informat	ion		
Eco-Toxicity	No data available		
Other adverse effects	No data available		









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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. (Valinomycin)			
Transport hazard Class, Packing group	6.1 poison Packing group PG1			
Comments		Not marine polutant		

15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
USA EPA / TSCA	This product is listed on the : USA EPA TSCA inventory as active, at TSCAINV_052024.CSV; Section (302) EHS extremely hazardous substances;
EU ECHA Status	This product is registered with the EU ECHA, Number 217-896-6 REACH: PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Listed









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16. Other information

16.1. Version information

Version date:8-2024 8-2024 *Added Eye damage information from manufacturer*

12-2024 Added USA regulatory data: EHS (extremely hazardous substances)

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



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16.6. End of SDS

Appendix A : Abbreviations and acronyms:

Ą	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/ Complex	Substance means a single compound. ,
	Mixture means there are two or more pure substances mixed purposely.
	<i>Complex</i> is a mixture of two or more substances which naturally occur together and are sold unseparated
Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service









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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
LDLO	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
TDLO	Toxic dose, least published

