### FERMENTEK MAKING FINE BIOCHEMICALS

## Safety Data Sheet Virginiamycin-Mix

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SDS Virginiamycin Mix vers 8-2024

### 1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

1.2. Intended uses of the Mixture and uses advised against

Product name	<u>Virginiamycin-Mix</u>	Formula		-	H49N7O10 + H35N3O7
Product Code	VIR	Molecular v	veight	158.	11 g/mol
CAS#	11006-76-1	Mixture?		Mixt	ure
ECHA#	<u>234-244-6</u>	<b>PUBCHEM</b>		<u>4839</u>	<u>)28283</u>
Comptox EPA	<u>30873800</u>	<u>RTECS</u>		-ZA4	1850000-
Drug bank#	<u>DB01669</u>	<u>CHEBI</u>		<u>CHE</u>	EBI:87209
Synonyms	Virginiamycin complex. Eskalin 500		Strep	otogramin	
Comment	Virginiamycin complex is a natural mixture of approx. 25% virginiamycin S1 and approx.75% virginiamycin M1				
Source	From: Streptomyces virginiae		Vers Date		21 October, 2024

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. Contacts1.3.1. Details of the supplier of the SDSFERMENTEK ltd4 Yatziv street, POB 47120Jerusalem 97800,IsraelWebsite:Fermentek.comWebsite: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.

2.1. Classification of the Mixture .

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

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

2.2.GHS Label elements, including precautionary statements

2.2.1. Pictogram: {None } Signal word: { None}

2.2.2. Hazard Statements.

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

2.2.3.	GHS Precauti	onary Statements.
P203		Obtain, read, and follow all safety instructions before using.
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:

P308+P313

*IF exposed or concerned: Get medical advice/attention.* 

### 3. Composition/information on ingredients

Mixture	
Substance Name:	Virginiamycin-Mix
Concentration	<=100%
CAS Registry#:	11006-76-1
<i>EC</i> #:	234-244-6
Molecular Formula:	C43H49N7O10 + C28H35N3O7
Molecular Weight:	158.11 g/mol
Classification	Not hazardous
Mixture?	Complex / Natural Mixture. See <u>Complex</u> T in Glossary

### 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<br/>doctor in attendance.





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Ingesti	ion:	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			
Gener	al symptoms	See section 11			
4.3.	Indication of any in	nmediate medical attention and special treatment needed			
Note to	o physicians	No data available			
5. Fire-fighting measures.					
5.1.	Extinguishing medi				
Suitab	le extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuit	table extinguishing medic	a None known			
5.2.	Other information				
Hazardous combustion products		Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur hydrogene C43H49N7O10 + C28H35N3O7			
Advice	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	is, protective equipment, and emergency procedures			
Person	nal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.			
<i>6.2</i> .	Environmental prec	cautions			
Enviro	onmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.			
6.3.	6.3. Methods and material for containment and cleaning up				
Metho	ds 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.			
Metho	ds 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.			





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<ul><li>7. Handling and sto</li><li>7.1. Precautions for safe</li></ul>	-
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 Contro	ls/Personal Protection
miniscule amounts, while toxic or otherwise hazard perform a risk assessmen The type of protective equ concentration of all dang	oncern would be present at the intended workplace in e surrounded by considerable amounts of other flammable, lous substances. Therefore, the employer/user should at prior to the use of this product. uipment must be selected based on the amount and perous materials being used in the workplace. luded in this document are advisory in nature
8.1. Control parameters	
Control parameters	Components with workplace control parameters
8.2. Exposure controls	

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]





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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

A	
Appearance	White to yellow powder or White to biege powder

No further safety relevant data are available

### 10. Stability and reactivity

10. Shubhiliy and Fouchtily		
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	





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### 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, Mouse, LD50= 2100 mg/kg Intrapetoneal , Mouse, LD50=450 mg/kg Subcutaneous, Mouse, LD50=2500 mg/kg No other acute toxicity available.
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, Mutag	ene, 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	-ZA4850000-
General symptoms	No data available



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**Ecological Information** *12*. *Eco-Toxicity* No data available No data available Other adverse effects **Disposal Considerations** *13*. Waste treatment methods *13.1*. Waste Disposal Dispose of in accordance with local regulations Contaminated packaging Dispose of as unused product **Transport** information *14*. 14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group ADR/RID US/DOT IATA IMDG

UN Number, Proper shipment name	Not classified (Virginiamycin-Mix )	Not classified (Virginiamycin-Mix )	Not classified (Virginiamycin-Mix )	Not classified (Virginiamycin-Mix )
Transport hazard Class, Packing group	Not hazardous for transport (Virginiamycin-Mix )			
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 234-244-6 REACH: PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed



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### 16. Other information

#### 16.1. Version information

Version date:8-2024 Rewritten

#### 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





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### Appendix A : Abbreviations and acronyms:

пррени	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	<i>"Synthetic"</i> means this compound has been manufactured by chemical conversion of another product of ours.	
	<i>"From"</i> means the compound was extracted from biomass, whther algal, fungal, microbial or plant material	
	Mixture means there are two or more pure substances mixed purposely.	
Mixture/Substance	Not including cases of " <b>Complex</b> " - two or more substances which occur together naturally 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	
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	

