

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

SDS Virginiamycin S1 vers 8-2024

Page 1 of 9

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	<u>Virginiamycin-S1</u>	Formula		C43H49N7O10
Product Code	VIS	Molecular weight		823.9 g/mol
CAS#	23152-29-6	Mixture?		Substance
ECHA#	245-462-6	<u>PUBCHEM</u>		<u>Virginiamycin-S1</u>
<u>CHEBI</u>	<u>CHEBI:46416</u>	<u>RTECS</u>		-Not listed-
Comptox EPA	<u>0046856</u>	Drug bank#		<u>drugs/DB04805</u>
Synonyms and	Virginiamycin S1	Staphylomycin S1	Virginia	ımycin factor S1
other names	N-(3-Hydroxypicolinoyl)-L-threonyl-D-alpha-aminobutyryl-L-prolyl-N-methyl-L-phenylalanyl-4-oxo-L-pipecoloyl-L-2-phenylglycine rho-lactone			
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. 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: Fermentek@Fermentek.com

Israel Safety@Fermentek.com

State Supery Commenters

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













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

SDS Virginiamycin S1 vers 8-2024

Page 2 of 9

2. Hazards' identification.

2.1. Classification of the Substance.

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 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:

3. Composition/information on ingredients

Substance	
Substance Name:	Virginiamycin-S1
Concentration	<=100%
CAS Registry#:	23152-29-6
EC#:	245-462-6
Molecular Formula:	C43H49N7O10
Molecular Weight:	823.9 g/mol
Classification	Not hazardous
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

The state of the s		
	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.













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

SDS Virginiamycin S1 vers 8-2024

Page 3 of 9

4.2. Most important symptoms and effects, both acute and delayed See section 11 General symptoms Indication of any immediate medical attention and special treatment needed *4.3*. 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, Sulfur oxides, Sulfur hydrogene C43H49N7O10 Wear self-contained breathing apparatus for fire fighting if necessary. Advice for firefighters

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Wear protective suit.

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













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

SDS Virginiamycin S1 vers 8-2024

Page 4 of 9

	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	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

0.5. I ersonat protective	5. I ersonai proiecure equipmeni		
[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).		













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

SDS Virginiamycin S1 vers 8-2024

Page 5 of 9

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

10. Stability and reactivity

<i></i>	
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: No acute toxicity available.













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

SDS Virginiamycin S1 vers 8-2024

Page 6 of 9

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 / No data available

Teratogenicity:

11.2. Additional information

RTECS number -Not listedGeneral 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

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	Not classified Not regulated (Virginiamycin-S1)	Not classified Not regulated (Virginiamycin-S1)	Not classified Not regulated (Virginiamycin-S1)	Not classified Not regulated (Virginiamycin-S1)
Transport hazard Class, Packing group	Not hazardous for transport (Virginiamycin-S1)	Not hazardous for transport (Virginiamycin-S1)	Not hazardous for transport (Virginiamycin-S1)	Not hazardous for transport (Virginiamycin-S1)
Comments		Not marine polutant		













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

SDS Virginiamycin S1 vers 8-2024

Page 7 of 9

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 245-462-6 REACH: PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Listed











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

SDS Virginiamycin S1 vers 8-2024

Page 8 of 9

16. Other information

16.1. Version information

Version date:8-2024

As no toxicity found, product is set not hazardous.

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





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

SDS Virginiamycin S1 vers 8-2024

Page 9 of 9

Appendix A: Abbreviations and acronyms:

This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are on on glass screens, not on paper. Synthetic / From "Synthetic" means this compound has been manufactured by chemical conversion of another production of the compound was extracted from biomass, whither algal, fungal, microbial or plant in	ly active			
Synthetic / From				
Synthetic / From" means the compound was extracted from biomass, whither algal, fungal, microbial or plant r	ct of ours.			
Tron means the compound was extracted from biomass, white digui, fundal, iniciobial of plants	naterial			
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 unsepara	Not including cases of two or more substances which naturally occur together and are sold unseparated			
Acute Tox.: Acute toxicity				
CAS: Chemical Abstracts Service	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	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)	Hazardous Materials Identification System (USA)			
IATA: International Air Transport Association	International Air Transport Association			
IMDG: International Maritime Code for Dangerous Goods	International Maritime Code for Dangerous Goods			
LC50: Lethal concentration, Median	Lethal concentration, Median			
LD50: Lethal dose, Median	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				









