

Safety Data Sheet: Virginiamycin mixture

Identification of the Substance and the Manufacturer 1.

1.1. Product identifiers			
Product name	Virginiamycin mixture	Formula	$C_{43}H_{49}N_7O_{10}+C_{28}H_{35}N_3O7$
Product Code	VX	RTECS	<u>ZA4850000</u>
CAS #	121006-76-1	Molecular weight	526.6
EC Number #	<u>234-244-6</u>	Substance? Mixture?	Substance
Synonyms	MikamycinStreptograminPyostacineStafacVirginiamycin complex	Eskalin Lactrol Stapyocine Virgimycin	Livelong Pyostacin Virginiamycin
Source	Streptomyces virginiae	Date of version	22 August, 2023
1.2. Intended uses of the Substance and uses advised against			

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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	<i>Tel:</i> +972 2	2 5853953 Fax: +972 2 5853943
4 Yatziv street, POB 47120	eMail:	Fermentek@Fermentek.com
Jerusalem 97800,		Safety@Fermentek.com
Israel	Website:	www.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 or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. GHS Label elements, including precautionary statements

- 2.2.1. Pictogram: { None} Signal word: {None}
- Hazard Statements 2.2.2.

P201

2.2.3. **GHS** Precautionary Statements

Obtain special instructions before use.



P202		Do not handle until all safety precautions have been read and understood
2.2.4.	GHS Response Phrases:	

3. Composition/information on ingredients

Substance	
Substance name:	Virginiamycin mixture
Concentration	a mixture of Virginiamycin M1 75% and S1 25%
CAS Registry#:	121006-76-1
<i>EC#</i> :	234-244-6
Molecular Formula:	$C_{43}H_{49}N_7O_{10}+C_{28}H_{35}N_3O7$
Molecular Weight:	526.6
Classification	Not classified
Mixture?	Substance.

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	If medical attention is required, consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water.
Ingestion:	Rinse mouth with water.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.

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 data available

5. *Fire-fighting measures*

5.1. Extinguishing media

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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
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	Prevent further leakage or spillage if safe to do so. Prevent product from
precautions	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 wa ith 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 powder spill with 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.
	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

8.1. Control parameters

Control parameters Components with workplace control parameters

8.2. Exposure controls

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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 fumehood 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 fullface 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*

9.1. Physical/chemical properties

Physical State at room temperature	Solid / powder
Color	NA
Melting/freezing point	NA
No further safety relevant data are available	

10. Stability and reactivity

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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 decomposition products	Hazardous decomposition products formed under fire conditions.: Carbon oxides.

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

Oral toxicity	Oral, Mouse; LD50 =2100 mg/kg
Skin corrosion/irritation:	Dermal, guinea pig, 50 mg (24h) severe irritation
Serious eye damage/eye irritation:	No quantitative data is available
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	<i>IARC: Group 3: Not classifiable as to its carcinogenicity to humans (Zearalenone)</i>
Reproductive toxicity / Teratogenicity:	Suspected of damaging the unborn child.
11.2. Additional information	
RTECS number	ZA4850000
General symptoms	No further relevant information available



12. Ecological Information

Eco-Toxicity	This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code
Other adverse effects	No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

Waste from residues / unused products	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

	US DOT	ADR/RID	IATA	IMDG
UN Number UN proper shipping name	Not dangerous goods (Virginiamycin mixture)	Not dangerous goods (Virginiamycin mixture)	Not dangerous goods (Virginiamycin mixture)	Not dangerous goods (Virginiamycin mixture)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
Additional information				Not marine polutant
Excepted quantities	Not applicable			
De Minimis exemption	Not applicable			

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)
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories	No SARA Hazards
California Proposition 65	This product does not contain any Proposition 65 chemicals.
EU ECHA Status	This product is REGISTERED with the EU ECHA, Number 234-244-6 ANNEX III: Not Listed (As of 12-2022) REACH: Preregistered (As of 12-2022)
Canada, DSL/NDSL	Not On DSL/NDSL

16. Other information

16.1. Department issuing this SDS

Quality systems and regulatory affairs

> FERMENTEK

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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 process, unless specified in the text.

16.3. The users '/employers' responsibility:

- A risk assessment should be performed by the employer/user prior to 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_Ltd does not claim © copyright on this document. Fermentek_Ltd believes that no one can claim copyright on an MSDS. This sort of document is but a compendium of common knowledge, published facts, and even the writing style is standard.

16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DOT:	US Department of Transportation
EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation
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
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 RE:	Specific target organ toxicity (repeated exposure)
TLV:	Threshold Limit Value
vPvB:	Very Persistent and Very Bioaccumulative

16.6. End of SDS