

Safety Data Sheet: **Virginiamycin M1**
1. Identification of the substance/mixture and of the Company
1.1. Product identifiers

Product name	Virginiamycin M1	Formula	C₂₈ H₃₅ N₃O₇
Product Code	VC	RTECS	ZA4850000
CAS #	21411-53-0	Molecular weight	525.6
EC Number #	244-376-6	Substance?Mixture?	Not mixture
Date of version	<23 March, 2020>		

1.2. Intended uses of the substance or mixture and uses advised against

Intended use:	Uses advised against:
Research and development. Laboratory reagent. Manufacturing of substances.	Not for drug, Not to be used in humans

1.3. Company information

Details of the supplier of the safety data sheet		Emergency Telephone number
FERMENTEK Ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	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
This company is the manufacturer of the product, and the supplier of the safety data sheet		

1.4. Reach:

See section 15

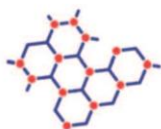
2. Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008:

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

2.2. GHS Label elements, including precautionary statements

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

Pictogram: None Signal word: {None}



GHS Hazard Statements

	None
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GHS Precautionary Statements

P201	Obtain special instructions before use.
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3. Composition/information on ingredients

Substance

Substance name:	Virginiamycin M1
Concentration	Virginiamycin M1
	CAS Registry #: 21411-53-0 EC#: 244-376-6 RTECS ZA4850000
	Molecular Formula: C₂₈ H₃₅ N₃O₇ Molecular Weight: 525.6
Classification	n.a.
Mixture?	Not mixture

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	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:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Symptoms	No information available.
Note to physician	No information 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	Solid water stream may be inefficient.

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	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
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6.2. Environmental precautions

Environmental 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. Contain spill and collect, as appropriate
Methods for cleaning up:	Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:	Provide appropriate exhaust ventilation at places where dust is formed.
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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.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies
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8.2. Exposure controls

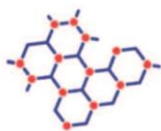
Appropriate engineering controls	General industrial hygiene practice.
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8.3. Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[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	Beige
Melting/freezing point	N.A.
Volatile?	Not volatile
No further safety relevant data are available	

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 oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Carbon oxides; Nitrogen oxides

11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Ingestion	Mouse, Oral, LD50 = 2100 mg/kg
Inhalation	No data available
Absorption thru Skin	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available

Chronic toxicity

Chronic Toxicity	No data available
Mutagenicity:	N.A.
Carcinogenicity:	N.A.
Reproductive toxicity / Teratogenicity:	N.A.

Potential Health Effects and Routes of Exposure

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed.
Skin corrosion/irritation:	May be harmful if absorbed through skin. May cause skin irritation
Eyes	May cause eye irritation

11.2. Additional information

RTECS number	ZA4850000
Symptoms	Not applicable

12. Ecological Information

12.1. Toxicity

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

12.2. Persistence and degradability

No information available.

12.5. Results of PBT and vPvB assessment

Not performed

12.6. Other adverse effects

No 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 IATA	US ADR	US RID	US IMDG
UN Number UN proper shipping name	Not dangerous goods (Virginiamycin M1)	Not dangerous goods (Virginiamycin M1)	Not dangerous goods (Virginiamycin M1)	Not dangerous goods (Virginiamycin M1)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

14.2. Additional information

Small quantities	Not applicable
Marine pollutant	Not marine pollutant

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation

Canadian regulations	This product is Not listed on the Canadian DSL/NDSL.
USA EPA / TSCA	This product is Not listed on the USA TSCA
EU ECHA Status	This product is registered with the EU ECHA, Number 244-376-6 ANNEX III: Listed REACH: Preregistration process.

16. Other information

16.1. Date of revision: Monday, 23 March, 2020

16.2. 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. Users should make their own investigations to determine the suitability of the information for their particular purposes

End of SDS

