



Safety Data Sheet:

Leptomycin A

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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	Leptomycin A	Formula	C32H46O6
Product Code	LPA	RTECS	RA5391000
CAS#	87081-36-5	Molecular weight	526.70 g/mol
ECHA#	Not listed	Substance? Mixture?	Substance
Synonyms	 Leptomycin A Jildamycin Antibiotic PD-118607 (2E,5S,6R,7S,9R,10E,12E,15R,16Z,18E)-6-Hydroxy-3,5,7,9,11,15,17-heptamethyl-19-[(2S,3S)-3-methyl-6-oxo-2,3-dihydropyran-2-yl]-8-oxononadeca-2,10,12,16,18-pentaenoic acid 		
Source		Version Date	10 October, 2024

1.2. Intended uses of the and uses advised against

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: <u>Fermentek@Fermentek.com</u>

Israel <u>Safety@Fermentek.com</u>

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

2. Hazards' identification

2.1. Classification of the substance or mixture

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

Acute Toxicity, Ingestion Cat.3 H301 Toxic if swallowed





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2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { Signal word: {DANGER}

2.2.2. Hazard Statements

H301 Toxic if swallowed

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:

P301+P316	IF SWALLOWED: Get emergency medical help immediately.
	Rinse mouth.
P330	

3. Composition/information on ingredients

Substance	
Substance Name:	Leptomycin A
Concentration	<=100%
CAS Registry#:	87081-36-5
EC#:	Not listed
Molecular Formula:	C32H46O6
Molecular Weight:	526.70 g/mol
Classification	AccTox O:2 (H301)
Mixture?	Substance
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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 doctor in attendance.
Eye contact:	Rinse out with plenty of water. Remove contact lenses.
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.





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Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.
Inhalation:	If inhaled, move the person into fresh air.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms None known

Indication of any immediate medical attention and special treatment needed

Note to physicians No data available

5. Fire-fighting measures

Extinguishing media *5.1*.

	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media		None known
	5.2. Other information	

ıtner injormation

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

Personal precautions, protective equipment and emergency procedures *6.1*.

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.

Methods and material for containment and cleaning up *6.3.*

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.





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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.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters Components with workplace control parameters

8.2. Exposure controls

Appropriate engineering controls

Showers, Eyewash stations, Ventilation systems 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]

[11 E-1 ersonal Projection 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.	





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Physical and chemical properties

Physical/chemical properties *9.1*.

Physical State at room Solid

temperature

Appearance

White lyophilized powder

No further safety relevant data are available

Stability and reactivity *10.*

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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Toxicological information 11.

Information on toxicological effects 11.1.

11.1.1. Acute Toxicity

Acute toxicity:	ESTIMATE Oral, mouse; LD50 100 mg/kg Estimate based on LD50 intravenous experimental data
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:	Mutations in yeast reported		
Carcinogenicity:	No data available		
Reproductive toxicity / Teratogenicity:	No data available		

11.2. Additional information

RTECS number	RA5391000
General symptoms	





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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

<u>Sect.11</u> <u>Sect.24</u> <u>Sect.45</u> <u>Sect.11</u> <u>Sect.14</u> <u>Sect.15</u>

14.1. UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID	IATA	IMDG
UN Number UN proper shipping name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Leptomycin A)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Leptomycin A)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Leptomycin A)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Leptomycin A)
Transport Hazard Class & Packing Group	6.1 poison III	6.1 poison III	6.1 poison III	6.1 poison III
Additional information			Not marine pollutant	
De Minimis exemption	•	of less than or equal to 1	~	

De Minimis exemption
When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.
Therefore, the package does not have to be labeled as Dangerous Goods/Excepted Quantity.

15. Regulatory information

<u>Sect.12</u> <u>Sect.4</u> <u>Sect.15</u> <u>Sect.14</u> <u>Sect.15</u> <u>Sect.16</u>

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 Not listed
This product is NOT REGISTERED with the EU ECHA as of 10.2024

16. Other information

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16.1. Department issuing this SDS

Quality systems and regulatory affairs

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 proces, unless specified in the text.





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16.3. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the 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

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16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity	LD50:	Lethal dose, Median
CAS:	Chemical Abstracts Service	NFPA:	National Fire Protection Association USA
DOT:	US Department of Transportation	NIOSH:	National Institute for Occupational Safety
EINECS:	European Inventory of Existing Commercial Chemical Substances	OSHA:	Occupational Safety & Health
Eye Dam.:	Serious eye damage/eye irritation	PEL:	Permissible Exposure Limit
HSDB	Hazardous Substances Data Bank	REL:	Recommended Exposure Limit
HMIS:	Hazardous Materials Identification System (USA)	Repr.:	Reproductive toxicity
IATA:	International Air Transport Association	RTECS:	Registry of Toxic Effects of Chemical Substances
IMDG:	International Maritime Code for Dangerous Goods	Skin Irrit:	Skin corrosion/irritation
LC50:	Lethal concentration, Median	PBT:	Persistent, Bioaccumulative, and Toxic

16.6. End of SDS