

Safety Data Sheet: **Leptomycin A**

Section 1. Identification of the substance/mixture and of the Company

Product identifiers			
Product name	Leptomycin A	Formula	C₃₂H₄₆O₆
Product Code	LPA	RTECS	RA5391000
CAS #	87081-36-5	Molecular weight	526.70
EC Number #	N.A.		

Intended uses of the substance or mixture and uses advised against	
Intended use	Uses advised against:
Only for Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive

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

Reach: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Section 2. Hazards identification

Classification of the substance or mixture

This product is not classifiable under CLP

GHS Classification:

This product is not considered dangerous

GHS Label elements, including precautionary statements

Pictogram: {None}; Signal word: {Not classified}

Section 3. Composition/information on ingredients

Substance	
Substance name:	Leptomycin A
	CAS Registry #: 87081-36-5 EC#: N.A.
	Molecular Formula: C₃₂H₄₆O₆ Molecular weight: 526.70
Concentration:	≤ 100%
Mixture	Not mixture.

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Section 4. *First Aid Measures*

Description of First Aid Measures

General advice:	If medical attention is required, show this safety data sheet to the doctor.
Eye contact:	Bathe the eye with running water for 15 minutes
Skin Contact:	Wash off with soap and plenty of water.
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water.
Inhalation:	Medical attention may be required. If symptoms persist, call a physician
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Ingestion	There may be irritation of the throat
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed/immediate effects	Immediate effects can be expected after short-term exposure

Section 5. *Fire-fighting measures*

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No information available
Hazardous combustion products	Carbon oxides.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

Section 6. *Accidental release measures*

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment as required. Keep people away from and upwind of spill/leak
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for containment	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	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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Section 7. Handling and storage

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.

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, Protect from sunlight. Protect from moisture

Incompatible materials

None known based on information available

Section 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits

No Data Available

NIOSH Recommended Exposure Limits

No Data Available

ACGIH Threshold Limit Values

No Data Available

Exposure controls

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

Appropriate engineering controls

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 fumehood for routine work

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.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

[PPE=Personal Protection Equipment]

PPE Eye/face protection

Wear safety glasses with side shields (or goggles).

PPE Skin and Body Protection

Wear protective gloves and protective clothing.

PPE Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Section 9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature Lyophilized Solid / powder

Color n.a.

No further safety relevant data are available

Section 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

Section 11. Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity	
Ingestion	No data available
Inhalation	No data available
Serious eye damage/eye irritation:	No data available
Skin corrosion/irritation:	No data available
Other toxicity	LD50 at 10 miligram/kg /Mouse/ Intravenous
Respiratory or skin sensitization:	No data available
Mutagenicity	Mutagenicity reported at 1 micromol/liter concentration
Reproductive toxicity / Teratogenicity:	No data available
Aspiration hazard:	No data available
Additional information:	RTECS: RA5391000

Section 12. Ecological Information

Eco-Toxicity	No further relevant information available
Persistence and degradability	Biodegradable.
Bioaccumulative potential	No bioaccumulation potential.
PBT and vPvB assessment	This substance is not identified as a PBT su
Other adverse effects	No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

Section 14. Transport information

This product does not require a classification for transport

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>
UN proper shipping name	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>
Transport Hazard Class & Packing Group	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>

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Section 15. *Regulatory information*

Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is not registered with the EU ECHA. Comment: the item appearing on CL/P is Leptomycin in Methanol solution.
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

Section 16. *Other information*

Date of revision: Friday, 24 May, 2019

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.

End of SDS

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