



Safety Data Sheet: Salinomycin from FERMENTEK .

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

1.1. Product identifiers

Product name	Salinomycin 🕆		Formula		$C_{42}H$	$H_{70}O_{11}$
Product Code	SAL		RTECS		VO8	<i>620000</i>
CAS#	53003-10-4		Molecula	r weight	751	
EC Number #	258-290-1 4		Substance	e? Mixture?	Subs	rtance
Synonyms	<i>HSDB/7032</i>	Salinon	nycin.	Procoxacin.		Coxistac.
UPAC Name	(2R)-2-{(2R,5S,6R)-6-[(2S,3S,4S,6R)-6-{(2S,5S,7R,9S,10S,12R,15R)-2-[(2R,5R,6S)-5-Ethyl-5-hydroxy-6-methyltetrahydro-2H-pyran-2-yl]-15-hydroxy-2,10,12-trimethyl-1,6,8-trioxadispiro[4.1.5.3]pentadec-13- en-9-yl}-3-hydroxy-4-methyl-5-oxo-2-octanyl]-5-methyltetrahydro-2H-pyran-2-yl}butanoic acid					
Source	Streptomyces albus		Date of ve	ersion	30 N	May, 2021

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

1.2.1. Intended use:Research and development.Laboratory reagent.To be used by professionals only	1.2.2. Uses advised against:Not for drug,Not to be used in humans or animals.Not food additive
1.3. Details of the supplier of the Sl	DS 1.4. Emergency Telephone number
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek Website: www.ferme	

1.5. **Reach:**

Number: 258-290-1	Registred: Preregistration process	Annex III : Listed
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2. Hazards' identification

2.1. Classification of the substance

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

Accute tox (O)	(Category 3	H301 Toxic if swallowed
riccate tox (o)	(category 5	11301 TOXIC II SWAIIOWCA

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: {



} Signal word {Danger}

2.2.2. GHS Hazard Statements

H301	Toxic if swallowed
2.2.3. GHS Precautionary Statem	nents
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.





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P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
2.2.4. GHS Response Phrases	
P301+P312	If swallowed: call a poison center/doctor
2.3 Other hazards	

2.3. Other nazards

2.3.1. Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at
	levels of 0.1% or higher.

Composition/information on ingredients

Substance		
Substance name:	Salinomycin	
Concentration	100%	
CAS Registry#:	53003-10-4	
EC#:	258-290-1	
Molecular Formula:	$C_{42}H_{70}O_{11}$	
Molecular Weight:	751	
Classification	Acute Tox. 2; H300	
Mixture?	Substance.	

First Aid Measures 4.

4.1. Description of First Aid Measures

4.1.1. General advice:	If medical attention is required, show this safety data sheet to the doctor/physician.
4.1.2. Inhalation:	If inhalled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
4.1.3. Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water
4.1.4. Skin Contact:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
4.1.5. Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

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

4.2.1. Observations in	TOXIC EFFECTS in horses: poor performance, generalized weakness, sudden onset of ataxia that
mamals	progressed to recumbency, persistent tachycardia, mild leukocytosis with neutrophilia, hyperglycemia,
	and mildly high serum creatine kinase activity.
	Information source: Journal of the American Veterinary Medical Association
	June 15, 2007, Vol. 230, No. 12, Pages 1822-1826, https://doi.org/10.2460/javma.230.12.1822

4.3. Indication of any immediate medical attention and special treatment needed

4.3.1. Note to physicians	Treat symptomatically, supportively
4.5.1. INDIC to physicians	, , , , , , , , , , , , , , , , , , , ,

Fire-fighting measures 5.

5.1. Extinguishing media



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5.1.1. Suitable extinguishing media	Use water foam Carbon dioxide (CO2) ; Dry powder
5.1.2. Unsuitable extinguishing media	Water stream may be uneffective

5.2. Other information

5.2.1. Hazardous combustion products	Carbon oxides; Nitrogen oxides
5.2.2. More information	None
5.2.3. 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	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure
	adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Keep people away
	from and upwind of spill/leak.

6.2. Environmental precautions

6.2.1. 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

6.3.1. 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.
6.3.2. 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

7.1.1. 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

7.2.1. Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C. Some other manufacturers may advice storing temperature 2-8 °C.
7.2.2. Suitable packaging	
7.2.3. Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

8.1.1. Control parameters	No occupational exposure limits are listed for this material.
8.1.2. OSHA Permissible Exposure Limits	No Data Available
8.1.3. NIOSH Recommended Exposure Limits	No Data Available

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8.1.4. ACGIH Threshold Limit Values	No Data Available
Values	

8.2. Exposure controls

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]	
8.3.1. 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).
8.3.2. 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
8.3.3. 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)
8.3.4. 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 must 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

.1.1. Physical State at room temperature	Solid / powder
.1.2. Color	Off White powder
.1.3. Melting/freezing point	180-195°C
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 exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Nitrogene oxides. Carbon oxides.

11. Toxicological information

11.1.Information on toxicological effects





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

11.1.1.Acute Toxicity		
Oral	LD50 Oral – (Rodent, Mouse) –57.4 mg/kg; Data Source: Poultrymed.com/Salinomycin	
11.1.2.Information on likely routes of	of exposure	
Inhalation	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	
11.1.3.CMR hazards & (Carcinoge	nic, mutagenic, reprotoxic)	
Mutagenicity	No data available	
Germ cell mutagenicity:	Negative results when tested on human cell culture.	
Carcinogenicity:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
Reproductive toxicity / Teratogenicity:	No data available	
STOT-SE – single exposure (GHS):	No data available	
STOT-SE – repeated exposure (GHS):	No data available	
Aspiration hazard:	No data available	
11.1.4.Potential Health Effects and I	Routes of Exposure	
If Inhaled	No data available	
If swallowed	No data available	
If on skin	No data available	
If in Eyes	No data available	

11.2. Additional information

	See section 4
11.2.1. RTECS number	<i>AU7355000 </i>

12. Ecological Information

12.1.1.Persistence and degradability	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.1.2.Other adverse effects	No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Waste from residues / unused products	Dispose of in accordance with local regulations
13.1.2. Contaminated packaging	Dispose of as unused product

14. Transport information

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





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	US DOT	IATA	IMDG	ADR/RID
UN Number UN proper shipping name	Not dangerous for transport and/or not regulated.			
Transport Hazard Class & Packing Group	Not dangerous for transport and/or not regulated.			
			Not marine polutant	

14.2. Addional information

Excepted quantities (EQ)	Not applicable
De Minimis exemption	Not applicable

15. Regulatory information

15.1. Product-specific safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
California proposit. 65	This product is not listed on California proposit. 65 as on Jan 3, 2020
EU ECHA Status	This product is registered with the EU ECHA, Number 258-290-1 REACH: pre registred; ANNEX III: Listed
Canada	This product is not listed on the Canadian DSL/NDSL

16. Other information

16.1. Date of revision:

Sunday, 30 May, 2021 10:05

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 specified in the text.

16.4. 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.

16.5.Comments:

Depreciated CAS Registry numbers:

- 37362-39-3
- 50863-72-4





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16.6. Abbreviations and acronyms:

16.6.1. Acute Tox.: Acute toxicity

16.6.2. CAS: Chemical Abstracts Service (division of the American Chemical Society)

16.6.3.DOT: US Department of Transportation

16.6.4. EINECS: European Inventory of Existing Commercial Chemical Substances

16.6.5. Eye Dam.: Serious eye damage/eye irritation

16.6.6. HMIS: Hazardous Materials Identification System (USA)

16.6.7.IATA: International Air Transport Association

16.6.8.IMDG: International Maritime Code for Dangerous Goods

16.6.9.LC50: Lethal concentration, Median

16.6.10.LD50: Lethal dose, Median

16.6.11.NFPA: National Fire Protection Association (USA) 16.6.12.NIOSH: National Institute for Occupational Safety

16.6.13. OSHA: Occupational Safety & Health

16.6.14.PBT: Persistent, Bioaccumulative and Toxic

16.6.15.PEL: Permissible Exposure Limit

16.6.16.REL: Recommended Exposure Limit

16.6.17. Repr.: Reproductive toxicity

16.6.18. Skin Irrit: Skin corrosion/irritation

16.6.19.STOT RE: Specific target organ toxicity (repeated exposure)

16.6.20.TLV: Threshold Limit Value

16.6.21.vPvB: very Persistent and very Bioaccumulative

16.7.**End of SDS**









Source: https://www.babelplex.com/a-guide-to-ghs-pictograms/

Toxic Acute toxicity (oral, dermal, inhalation) (cat. 1, 2, 3)	Respiratory sensitization (cat. 1) Germ cell mutagenicity (cat. 1A, 1B, 2) Carcinogenicity (cat. 1A, 1B, 2) Reproductive toxicity (cat. 1A, 1B, 2) Specific target organ toxicity following single exposure (cat. 1, 2) Specific target organ toxicity following repeated exposure (cat. 1A, 1B, 2) Aspiration hazard (cat. 1, 2)	Acute toxicity (oral, dermal, inhalation) (cat. 4) Skin irritation (cat. 2, 3) Eye irritation (cat. 2A) Skin sensitization (cat. 1) Specific target organ toxicity following single exposure (cat. 3) Respiratory tract irritation Narcotic effects
Corrosive Corrosive to metals (cat. 1) Skin corrosion (cat. 1A, 1B, 1C) Serious eye damage (cat. 1)	Environmentally Damaging Acute hazards to the aquatic environment (cat.1) Chronic hazards to the aquatic environment (cat. 1, 2)	



