



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

1.1. Product identifiers

Product name	Salinomycin		Formula		C42H70O11	
Product Code	SAL		RTECS		VO8620000	
CAS#	53003-10-4		Molecular weight		751	
EC Number #	258-290-1		Substance	? Mixture?	Subst	tance
Synonyms	HSDB/7032	Salinom	ycin.	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 version 19 October, 2024					

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

1.2.1. Intended use:		1.2.2. Uses advised against:
Research and development.		Not for drug,
 Laboratory reagent. 		Not to be used in humans or animals.
To be used by professionals only		Not food additive
1.3. Details of the su	pplier of the SDS	1.4. Emergency Telephone number
FERMENTEK ltd	Tel: +972 2 5853953	For chemical emergency spill, leak, fire, exposure, or accident calls

4 Yatziv street, POB 47120 Jerusalem 97800, Israel Fax: +972 2 5853943 eMail:

fermentek@fermentek.com Website: www.fermentek.com For chemical emergency spill, leak, fire, exposure, or accident call 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

1.5. Reach:

Number: 258-290-1 Registred: Preregistration process Annex III : Listed

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

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 Staten	nents
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P264	Wash {hands} thoroughly after handling.

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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
3.3. Other because	

2.3. Other hazards

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.

3. Composition/information on ingredients

Substance	
Substance name:	Salinomycin
Concentration	100%
CAS Registry#:	53003-10-4
EC#:	258-290-1
Molecular Formula:	C42H70O11
Molecular Weight:	751
Classification	Acute Tox.3; H301
Mixture?	Substance.

4. First Aid Measures

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 mamals	TOXIC EFFECTS in horses: poor performance, generalized weakness, sudden onset of ataxia that 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

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5. Fire-fighting measures

5.1. Extinguishing media

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;
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
g.	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.

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8.1.2. OSHA Permissible Exposure Limits	No Data Available
8.1.3. NIOSH Recommended Exposure Limits	No Data Available
8.1.4. ACGIH Threshold Limit Values	No Data Available

8.2. Exposure controls

8.2.1. Appropriate engineering	Showers, Eyewash stations, Ventilation systems	
	controls	Avoid contact with skin, eyes, and clothing.
	Controls	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 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

Physical State at room temperature	Solid / powder
Color	Off White powder
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.

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11. Toxicological information

11.1.Information on toxicological effects

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

Acute Toxicity	
Oral	LD50 Oral – (Rodent, Mouse) –57.4 mg/kg; Data Source: Poultrymed.com/Salinomycin
Information on likely routes 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
CMR hazards & (Carcinogenic, mutag	enic, 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
Potential Health Effects and 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
RTECS number	VO8620000

12. Ecological Information

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.
Other adverse effects	No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

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

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14. Transport information

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

	US DOT	IATA	IMDG	ADR/RID
UN Number UN proper shipping name	UN 3462 Toxins, extracted from living sources, solid, n.o.s.			
Transport Hazard Class & Packing Group	6.1 poison PG III	6.1 poison PG III	6.1 poison PG III	6.1 poison PG III
			Not marine polutant	

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.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 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.Abbreviations and acronyms:

16.4.1. Acute Tox.: Acute toxicity

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

16.4.3.DOT: US Department of Transportation

16.4.4 EINECS: European Inventory of Existing Commercial Chemical Substances

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

16.4.6. HMIS: Hazardous Materials Identification System (USA)

16.4.7.IATA: International Air Transport Association

16.4.8.IMDG: International Maritime Code for Dangerous Goods

16.4.9.LC50: Lethal concentration, Median

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16.4.10.LD50: Lethal dose, Median

16.4.11.NFPA: National Fire Protection Association (USA) 16.4.12.NIOSH: National Institute for Occupational Safety

16.4.13.OSHA: Occupational Safety & Health 16.4.14.PBT: Persistent, Bioaccumulative and Toxic

16.4.15.PEL: Permissible Exposure Limit 16.4.16.REL: Recommended Exposure Limit

16.4.17.Repr.: Reproductive toxicity 16.4.18.Skin Irrit: Skin corrosion/irritation

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

16.4.20.TLV: Threshold Limit Value

16.4.21.vPvB: very Persistent and very Bioaccumulative

16.5. No-Copyright statement



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16.6.End of SDS