



Anisomycin

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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<u>Anisomycin</u>	Formula		C1	4H19NO4
Product Code	ANI	Molecular w	eight	265	5.34 g/mol
CAS#	22862-76-6	Mixture?		Sub	ostance
ECHA#	245-269-7	PUBCHEM		<u>253</u>	<u>8602</u>
Drug bank#	drugs/DB07374	<u>RTECS</u>		BZ^{g}	9800000
Comptox EPA	<u>5040966</u>	<u>CHEBI</u>		<u>CH</u>	EBI:338412
Synonyms and	• Flagecidin	•		• A	ntibiotic PA-106
other names	• 2-(p-Methoxybenzyl)-3,4-pyrrolidinediol 3-acetate				
Source	Synthetic / From:		Vers Date	e	13 August, 2024

1.2. Intended uses of the Substance 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	<i>Tel:</i> +972	2 5853953
4 Yatziv street, POB 47120	<i>Fax:</i> +972	2 2 5853943
Jerusalem 97800,	eMail:	Fermentek@Fermentek.com
Israel		Safety@Fermentek.com
	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













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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 toxicity: Oral Category 3 H301 Toxic if swallowed

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { Signal word: {Danger }

2.2.2. Hazard Statements

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

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:

<i>P301+P316</i> ,	IF SWALLOWED: Get emergency medical help immediately.
P301+316	IF SWALLOWED: Get emergency medical help immediately.
P318	IF EXPOSED OR CONCERNED, get medical advice.
P321	
P330	Rinse mouth.

3. Composition/information on ingredients

Substance	
Substance Name:	Anisomycin
Concentration	<=100%
CAS Registry#:	22862-76-6
EC#:	245-269-7
Molecular Formula:	C14H19NO4
Molecular Weight:	265.34 g/mol
Classification	Acc O:3 (H301)
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice: First-aiders need to protect themselves.













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	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.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
Inhalation:	If inhaled, move the person into fresh air.

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

General symptoms See section 11

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

Note to physicians No data 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	None known
media	

5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides Formula C14H19NO4
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	Use personal	l protective	equipment a	s required.	Keep people away from
	and upwind o	of spill/leak	•		

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from
	entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a 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 the powder spill with a plastic sheet or tarp to















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minimize spreading. Sweep up and shovel into suitable containers for disposal.

Handling and storage 7.

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 Eq	[PPE=Personal Protection 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 FN 166 (FU)						













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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 Solid

temperature

Appearance Powder, White

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 combustion

products

See section 5

11. Toxicological information

11.1. Information on toxicological effects

 $To \ the \ best \ of \ our \ knowledge, \ the \ toxicological \ effects \ of \ this \ product \ have \ not \ been \ thoroughly \ studied \ yet.$

11.1.1. Acute Toxicity

Acute toxicity:	Oral, Mouse, LD50= 148 mg/kg No other acute toxicity available.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11 10 01 14 14	

11.1.2. Chronic toxicity

Chronic toxicity No data available

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC













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Reproductive toxicity /	No data available
Teratogenicity:	
Termogenicity.	

11.2. Additional information

RTECS number	BZ9800000
General symptoms	(Acute): BEHAVIORAL convulsions or effect on seizure threshold; lungs, thorax, or respiration: respiratory depression
	(Chronic) Liver - multiple effects Nutritional and Gross Metabolic - weight loss or decreased weight gain. Related to Chronic Data - death

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

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

UN Number UN proper shipping name	UN 3462: Toxins, Extracted from Living Sources, Solid, N.O.S. (Anisomycin)
Transport Hazard Class & Packing Group	Class 6.1 (Poison); Packing group III

15. Regulatory information

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 245-269-7 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

16. Other information

16.1. Version information

Version date:

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.













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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 explicitly specified in the text.

16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, a risk assessment should be performed by the employer/user prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature.

16.5. No © copyright



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16.6. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)
DOT:	US Department of Transportation
ECHA	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
EPA	United States Environmental Protection Agency
Eye Dam.:	Serious eye damage/eye irritation
HSDB	Hazardous Substances Data Bank
HMIS:	Hazardous Materials Identification System (USA)















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IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose, Median
LDL0	Letal dose, leatst published
NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry of Toxic Effects of Chemical Substances
Skin Irrit:	Skin corrosion/irritation
STOT/SE	Specific target organ toxicity/Single exposure
STOT/RE	Specific target organ toxicity/Repeated exposure
T3DB	Toxin and Toxin Target Database
TDL0	Toxic dose, least published
	an a

16.7. *End of SDS*













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Source: https://www.ilo.org/legacy/english/protection/safework/ghs/ghsfinal/ghsc05.pdf

Data in mg/kg body weight; LD50/oral/Mouse or Rat; rats usually are more susceptible.

If no oral data available but subcutaneous/IV is, you can guess oral by multiplying IP by 10 or IV by 20.

Exposure	CAT 1	CAT 2	CAT 3	CAT 4
		LD50/oral/mouse	LD50/oral/mouse	LD50/oral/mouse
Oral	<5	5-50	50-300	300-2000
Dermal	<50	5-200	200-1000	1000-2000
Dust/Mist mg/L (timing?)	<0.2	0.2-2	2-4	
			*	!
Packing Group	1	2	3	NDG









