

Safety Data Sheet: Geldanamycin

1. Identification of the Substance and of the Manufacturer

1.1. Product identifiers

Product name	Geldanamycin	Formula	C ₂₉ H ₄₀ O ₉ N ₂
Product Code	G	RTECS	LX8920000
CAS #	30562-34-6	Molecular weight	560.71
EC Number #	805-356-8	Substance? Mixture?	Substance
Synonyms			
Source	<i>Streptomyces hygroscopicus</i>	Date of version	3 December, 2022

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

1.2.1. Intended use:	1.2.2. Uses advised against:
<i>Research and development. Laboratory reagent. To be used by professionals only</i>	<i>Not for drug, Not to be used in humans or animals. Not food additive</i>

1.3. Contacts

1.3.1. Details of the supplier of the SDS	1.3.2. 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

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)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2.1. Pictogram: {None}

2.2.2. Signal word: {None}

2.2.3. Hazard Statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2.4. GHS Precautionary Statements

P201	<i>Obtain special instructions before use.</i>
P202	<i>Do not handle until all safety precautions have been read and understood.</i>
P261	<i>Avoid breathing dust/fume/gas/mist/vapours/spray</i>

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P264	<i>Wash face, hands and any exposed skin thoroughly after handling</i>
P270	<i>Do not eat, drink or smoke when using this product</i>

3. Composition/information on ingredients

<i>Substance</i>	
<i>Substance name:</i>	<i>Geldanamycin</i>
<i>Concentration</i>	<i><=100%</i>
<i>CAS Registry#:</i>	<i>30562-34-6</i>
<i>EC#:</i>	<i>Error! Reference source not found.</i>
<i>Molecular Formula:</i>	<i>C29H40O9N2</i>
<i>Molecular Weight:</i>	<i>560.71</i>
<i>Classification</i>	<i>Not classifiable</i>
<i>Mixture?</i>	<i>Substance .</i>

4. First Aid Measures

4.1. Description of First Aid Measures

<i>General advice:</i>	<i>Consult a physician. Show this safety data sheet to the doctor in attendance.</i>
<i>Eye contact:</i>	<i>Remove contact lenses. Flush with plenty of water as a precaution.</i>
<i>Skin Contact:</i>	<i>Wash off with soap and plenty of water. Consult a physician.</i>
<i>Ingestion:</i>	<i>Make victim drink water (two glasses at most). Consult doctor if feeling unwell.</i>
<i>Inhalation:</i>	<i>If inhaled, move person into fresh air</i>

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

<i>General symptoms</i>	<i>Pulmonary edema. Effects may be delayed. Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Dizziness, Drowsiness, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.</i>
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4.3. Indication of any immediate medical attention and special treatment needed

<i>Note to physicians</i>	<i>Treat symptomatically.</i>
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5. Fire-fighting measures

5.1. Extinguishing media

<i>Suitable extinguishing media</i>	<i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i>
<i>Unsuitable extinguishing media</i>	<i>None known</i>

5.2. Other information

<i>Hazardous combustion products</i>	<i>Carbon oxides, Nitrogen oxides (NOx).</i>
<i>Advice for firefighters</i>	<i>Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.</i>

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

<i>Personal precautions</i>	<i>Use personal protective equipment as required. Keep people away from and upwind of spill/leak.</i>
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6.2. Environmental precautions

<i>Environmental precautions</i>	<i>Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.</i>
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6.3. Methods and material for containment and cleaning up

<i>Methods for containment:</i>	<i>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.</i>
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<i>Methods for cleaning up:</i>	<i>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.</i>
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7. Handling and storage

7.1. Precautions for safe handling

<i>Advice on safe handling:</i>	<i>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.</i>
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7.2. Conditions for safe storage, including any incompatibilities

<i>Storage Conditions:</i>	<i>Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.</i>
<i>Suitable packaging</i>	<i>Must only be kept in original packaging.</i>
<i>Incompatible materials:</i>	<i>None known based on information available.</i>

8. Exposure Controls/Personal Protection

8.1. Control parameters

<i>Control parameters</i>	<i>Components with workplace control parameters</i>
<i>Exposure controls</i>	
<i>Appropriate engineering controls</i>	<i>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.</i>

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8.2. Personal protective equipment

[PPE=Personal Protection Equipment]

<i>PPE: Respiratory protection</i>	<i>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).</i>
<i>PPE: Hand Protection:</i>	<i>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</i>
<i>PPE: Eye Protection:</i>	<i>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)</i>
<i>PPE: Skin and Body Protection:</i>	<i>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.</i>

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature *Solid / powder*

Color *Yellow to orange- yellow*

No further safety relevant data are available

10. Stability and reactivity

<i>Reactivity:</i>	<i>No information available.</i>
<i>Chemical stability:</i>	<i>Stable under normal conditions.</i>
<i>Conditions to avoid</i>	<i>Heat, flames and sparks. Sunlight.</i>
<i>Incompatible materials</i>	<i>Strong reducers and oxidizers</i>
<i>Possibility of Hazardous Reactions</i>	<i>None under normal processing</i>
<i>Hazardous decomposition products</i>	<i>Hazardous decomposition products formed under fire conditions.: Carbon oxides. Nitrogen oxides.</i>

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11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute Toxicity

<i>Oral toxicity estimate:</i>	<i>Rat, Oral, LD50=2500 mg/kg</i>
<i>Serious eye damage</i>	<i>No data available</i>
<i>Respiratory or skin sensitization/corrosion:</i>	<i>No data available</i>

11.1.2. CRM (Carcinogene, Mutagene, Reproductive hazards)

<i>Germ cell mutagenicity:</i>	<i>DNA inhibition observed in mouse lymphocyte culture at 1 mg/L</i>
<i>Carcinogenicity:</i>	<i>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.</i>
<i>Reproductive toxicity / Teratogenicity:</i>	<i>No data available</i>

11.2. Additional information

<i>RTECS number</i>	<i>LX8920000</i>
<i>General symptoms</i>	<i>Pulmonary edema. Effects may be delayed. Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Dizziness, Drowsiness, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.</i>

12. Ecological Information

<i>Eco-Toxicity</i>	<i>Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. No further relevant information available</i>
<i>Other adverse effects</i>	<i>No further relevant information available.</i>

13. Disposal Considerations

13.1. Waste treatment methods

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

14. Transport information

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

	<i>US DOT</i>	<i>US IATA</i>	<i>US IMDG</i>	<i>US ADR/RID</i>
<i>UN Number</i>	<i>Not dangerous for transport</i>	<i>Not dangerous for transport</i>	<i>Not dangerous for transport</i>	<i>Not dangerous for transport</i>
<i>UN proper shipping name</i>	<i>(Geldanamycin)</i>	<i>(Geldanamycin)</i>	<i>(Geldanamycin)</i>	<i>(Geldanamycin)</i>

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Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
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14.2. Additional information

			Not marine pollutant	
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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)
SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories	Acute health hazard: Yes
California Proposition 65	This product does not contain any Proposition 65 chemicals.
EU ECHA Status	This product is NOT REGISTERED with the EU ECHA, Number Error! Reference source not found. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed REACH: Not Listed

16. Other information

16.1. Department issuing this SDS

Quality systems and regulatory affairs
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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:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DOT:	US Department of Transportation
EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation

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<i>HMIS:</i>	<i>Hazardous Materials Identification System (USA)</i>
<i>IATA:</i>	<i>International Air Transport Association</i>
<i>IMDG:</i>	<i>International Maritime Code for Dangerous Goods</i>
<i>LC50:</i>	<i>Lethal concentration, Median</i>
<i>LD50:</i>	<i>Lethal dose, Median</i>
<i>NFPA:</i>	<i>National Fire Protection Association (USA)</i>
<i>NIOSH:</i>	<i>National Institute for Occupational Safety</i>
<i>OSHA:</i>	<i>Occupational Safety & Health</i>
<i>PBT:</i>	<i>Persistent, Bioaccumulative and Toxic</i>
<i>PEL:</i>	<i>Permissible Exposure Limit</i>
<i>REL:</i>	<i>Recommended Exposure Limit</i>
<i>Repr.:</i>	<i>Reproductive toxicity</i>
<i>Skin Irrit:</i>	<i>Skin corrosion/irritation</i>
<i>STOT RE:</i>	<i>Specific target organ toxicity (repeated exposure)</i>
<i>TLV:</i>	<i>Threshold Limit Value</i>
<i>vPvB:</i>	<i>Very Persistent and Very Bioaccumulative</i>

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16.6. End of SDS