



Safety Data Sheet: Gliotoxin | Fermentek

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

1.1. Product identifiers				
Product name		Gliotoxin Fermentek		
Product Code		GL		
CAS#		67-99-2		
EC/ REACH Number				
1.2. 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			
1.3. Details of the supplier of the safety data sheet		data		Emergency Telephone number
FERMENTEK Itd 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				
1.5. 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.			

2. Hazards identification

2.1. Classification of the substance or mixture

Toxic if swallowed

Classification of the Substance or Mixture and Label Elements







GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 2.2. 1910.1200)

Acute Toxicity, Oral (Category 3)

2.3. **GHS Classification:**

Acute Toxicity, Oral (Category 3)

2.4. GHS Label elements, including precautionary statements

Signal word: {DANGER}

2.5. **GHS Hazard Statements**

H301	Toxic if swallowed.		
GHS Precautionary Stateme	nts		
P201	Obtain special instructions before use.		
P264	Wash hands thoroughly after handling.		
P281	Use personal protective equipment as required.		
	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel		
P301/P312	unwell.		

Unclassified Hazards/Hazards Not Otherwise Classified 2.6.

No data available

Composition/information on ingredients 3.

3.1. **Substance**

Molecular Formula:	C13H14N2O4S2
Molecular Weight:	326.39
CAS Registry #:	67-99-2
EC#:	
Synonyms	(3R,5aS,6S,10aR)-2,3,5a,6-Tetrahydro-6-hydroxy-3-(hydroxymethyl)-2-methyl-10H-3,10a-epidithiopyrazino[1,2-a] indole-1,4-dione

3.2. Mixture

Not mixture. This product is a pure compound

First Aid Measures

Description of First Aid Measures 4.1.

General advice	Consult a doctor, as medical attention may be required. If symptoms persist, call a physician. If medical attention is required, show this safety data sheet to the doctor.
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. Call a physician.
Skin Contact:	Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.
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. Call a physician



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Inhalation:	If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult 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 tob protect themselves and prevent spread of contamination
Most important symptoms:	No information available.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Nitrogene oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit

5.4. Further information

No data available

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required. Keep people away from and

upwind 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

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to

local/national regulations and guidance (see Section 13).

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.

7. Handling and storage

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.



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Incompatible materials: None known.

7.3. Specific End Uses:

For scientific research and development only. Not for use in humans or

animals.

8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits

NIOSH Recommended Exposure Limits

ACGIH Threshold Limit Values

No Data Available

No Data Available

8.1. Exposure controls

Appropriate engineering controls

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.

[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

EN 166 (EU)

PPE: Skin and Body Protection: Handle with gloves. Wear protective clothing. Choose body protection

according to the amount and concentration of the dangerous substance at the

work place. When deemed needed according to the concentration and

amount of this product, use a complete body suit

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature Solid / powder Color White Melting/freezing point 200-210°C

No further safety-relevant information is available



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10. Stability and reactivity

Reactivity:No information available.Chemical stability:Stable under normal conditions.Conditions to avoidHeat, flames and sparksIncompatible materialsStrong reducers and exidizersPossibility of Hazardous ReactionsNone under normal processing

Hazardous decomposition products: Carbon monoxide CO, Carbon dioxide (CO2).

11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity	LD50 (oral - mouse) 67 mg/kg
Skin corrosion/irritation:	no data available
Serious eye damage/eye irritation:	no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available
Carcinogenicity:	no data available
Reproductive toxicity /	no data available
Teratogenicity:	
STOT-SE – single exposure (GHS):	no data available
STOT-RE – repeated exposure (GHS):	no data available
Aspiration hazard:	no data available
Potential Health Effects	
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation
Ingestion	Toxic if if swallowed
Signs and Symptoms of Exposure	no data available
Additional information:	RTECS: KB4725000

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

12. Ecological Information

Eco-ToxicityNo further relevant information available **Other adverse effects**No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods		
Waste from residues / unused products	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

	US DOT	US DOT	US DOT	US DOT
UN Number	UN 2811 - Toxic solid,			







UN proper shipping name	organic, n.o.s.	organic, n.o.s.	organic, n.o.s.	organic, n.o.s.
	(Gliotoxin)	(Gliotoxin)	(Gliotoxin)	(Gliotoxin)
Hazard Class & Packing Group	Class 6.1 pg 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
EU ECHA Status	This product is not registered with the EU ECHA
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

15.2. Chemical Safety Assessment

No data available

16. Other information

16.1. Date of revision: 19 febr 2017

16.2. 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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