



Safety Data Sheet: *Cytochalasin_D*

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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	Cytochalasin_D	Formula	C ₃₀ H ₃₇ NO ₆
Product Code	CYD	Molecular weight	158.11 g/mol
CAS#	22144-77-0	Mixture?	Substance
ECHA#	244-804-1	PUBCHEM	5458428
HSDB	HSDB 3549	RTECS	GZ4850000
Drug bank#	---	T3DB#	T3D3678
Comptox EPA	8037099	CHEBI	CHEBI:529996
Synonyms	<ul style="list-style-type: none"> • Zygosporin A • Lygosporin A • Cytohalasin D • (11)Cytochalasa-6(12),13,19-triene-1,17-dione, 21-(acetyloxy)-7,18-dihydroxy-16,18-dimethyl-10-phenyl-, (7S,13E,16S,18R,19E,21R)- • 7,18-Dihydroxy-10-phenyl-5,16,18-trimethyl-(11)cycotchalas-21-acetoxy-6(12),13,19-trien-17-one 		
Source	From: Zygosporium mansonii	Vers Date	12 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. Laboratory reagent. Reference material. Manufacturing of substances. To be used by professionals only	Not a drug, Not a food additive Not to be used in humans or animals.

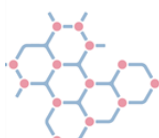
1.3. Contacts

1.3.1. Details of the supplier of the SDS	
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: Fermentek@Fermentek.com 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)

Acute toxicity: Oral	Category 2	H300	Fatal if swallowed
Reproductive toxicity	Category 2	H361d	Suspected of damaging the unborn child

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { } Signal word: {Danger}

2.2.2. Hazard Statements

H300	Fatal if swallowed
H361d	Suspected of damaging the unborn child (see sect 11)

2.2.3. GHS Precautionary Statements

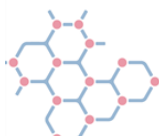
P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4. GHS Response Phrases:

P301+P316,	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 mouse

3. Composition/information on ingredients

Substance	
Substance Name:	Cytochalasin_D
Concentration	<=100%
CAS Registry#:	22144-77-0
EC#:	244-804-1
Molecular Formula:	$C_{30}H_{37}NO_6$
Molecular Weight:	158.11 g/mol
Classification	Acc O:2 (H300), Repro 2(H61d)





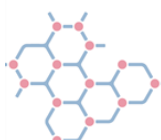
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Mixture?	Substance
4. First Aid Measures.	
4.1. Description of First Aid Measures.	
General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.
Eye contact:	Rinse 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 media	None known
5.2. Other information	
Hazardous combustion products	Carbon oxides, Nitrogen oxides, Sulfur oxides, Sulfur dihydrogene, <i>Formula C₃₀H₃₇NO₆</i>
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 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.





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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 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.
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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
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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.
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8.3. Personal protective equipment

[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).





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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 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 temperature	Solid
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 oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

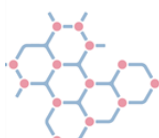
11. Toxicological information

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, Rat, LD50=36 mg/kg No other acute toxicity available.
Skin corrosion/irritation:	No data available





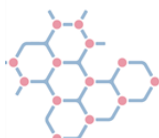
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Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11.1.2. Chronic toxicity	
Chronic toxicity	No data available
11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)	
Germ cell mutagenicity:	Mutations in human cells in vitro reported at 1 mg/L. Mutations in vivo, Mouse, 0.6 mg/kg IP reported.
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	Mouse, oral 1.5 mg/kg during pregnancy resulted in: Post-implantation mortality (fetal death) Specific Developmental Abnormalities - musculoskeletal system. Developmental Abnormalities - Central Nervous System Developmental Abnormalities -Craniofacial (including nose and tongue)
11.2. Additional information	
RTECS number	GZ4850000
General symptoms	Peripheral Nerve and Sensation - spastic paralysis with or without sensory change
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. (Cytochalasin_D)
Transport Hazard Class & Packing Group	Class 6.1 (Poison) ; Packing group II
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)





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EU ECHA Status

This product is registered with the EU ECHA, Number 244-804-1
REACH: PreRegistration process (8-2024).
ANNEX III (criteria for 1 - 10 tonne registered substances): Listed

16. Other information

16.1. Version information

Version date: 8-2024

Toxicity and Reprotox data revised accord. RTECS/May 2024.

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 proces, unless 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 hazardous 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.

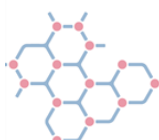
16.5. No-Copyright statement



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16.6. Abbreviations and acronyms:

<i>Acute Tox.:</i>	<i>Acute toxicity</i>
<i>CAS:</i>	<i>Chemical Abstracts Service</i>
<i>Comptox</i>	<i>CompTox Chemicals Dashboard Resource Hub (EPA)</i>
<i>DOT:</i>	<i>US Department of Transportation</i>
<i>ECHA</i>	<i>European Chemicals Agency</i>
<i>EINECS:</i>	<i>European Inventory of Existing Commercial Chemical Substances</i>
<i>EPA</i>	<i>United States Environmental Protection Agency</i>
<i>Eye Dam.:</i>	<i>Serious eye damage/eye irritation</i>
<i>HSDB</i>	<i>Hazardous Substances Data Bank</i>
<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>LDL0</i>	<i>Letal dose, least published</i>
<i>NDG</i>	<i>Not dangerous goods (for transport)</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>RTECS:</i>	<i>Registry of Toxic Effects of Chemical Substances</i>
<i>Skin Irrit:</i>	<i>Skin corrosion/irritation</i>
<i>STOT/SE</i>	<i>Specific target organ toxicity/Single exposure</i>
<i>STOT/RE</i>	<i>Specific target organ toxicity/Repeated exposure</i>
<i>T3DB</i>	<i>Toxin and Toxin Target Database</i>
<i>TDL0</i>	<i>Toxic dose, least published</i>

16.7. End of SDS

