


Safety Data Sheet:

Cytochalasin-C

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<u>Cytochalasin-C</u>	Formula	C ₃₀ H ₃₇ NO ₆
Product Code	CC	RTECS	<u>HA5300500</u>
CAS #	<u>22144-76-9</u>	Molecular weight	507.6 g/mol
ECHA#	<u>244-803-6</u>	Substance? Mixture?	Substance
Synonyms	Cytochalasine C 7(S),18-dihydroxy-16(S),18(R)-dimethyl-10-phenyl[11]cytochalasa-5,13(E),19(E)-triene-1,17-dione 21(R)-acetate		
Source	Drechslera dematoidea	Version Date	29 December, 2022

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use: <ul style="list-style-type: none"> ○ Research and development. ○ Laboratory reagent. ○ Reference material. ○ Manufacturing of substances. ○ To be used by professionals only 	1.2.2. Uses advised against: <ul style="list-style-type: none"> ○ Not a drug, ○ Not a food additive ○ Not to be used in humans or animals.
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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
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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

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)

Acute Toxicity, Ingestion	Cat.3	H301	Toxic if swallowed
Acute Toxicity, Inhalation (Dusts/Mists)	Cat.3	H331	Toxic if in contact with skin
Acute Toxicity, Dermal	Cat.3	H311	Toxic if inhaled
Reproductive toxicity	Cat.2	H361d	Suspected of damaging the unborn child


Safety Data Sheet:

Cytochalasin-C

2.2. GHS Label elements, including precautionary statements
2.2.1. Pictogram: {   } **Signal word:** {DANGER}

2.2.2. Hazard Statements

H301	Toxic if swallowed
H331	Toxic if in contact with skin
H311	Toxic if inhaled
H361d	Suspected of damaging the unborn child

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+P317	IF SWALLOWED: Get emergency medical help.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with soap and water.
P304+P340:	IF INHALED: Remove the victim to fresh air and keep at rest in a position comfortable for breathing.
P318	If exposed or concerned, get medical advice.
P361+P364	Remove all contaminated clothing, and wash it before reuse.

3. Composition/information on ingredients

Substance	
Substance Name:	Cytochalasin-C
Concentration	<=100%
CAS Registry#:	22144-76-9
EC#:	244-803-6
Molecular Formula:	C ₃₀ H ₃₇ NO ₆
Molecular Weight:	507.6 g/mol
Classification	Acc.tox 3(H302,H312,H332),Repr.tox 2(H361d)
Mixture?	Substance .


Safety Data Sheet:

Cytochalasin-C

4. First Aid Measures

4.1. Description of First Aid Measures

<i>General advice:</i>	<i>First-aiders need to protect themselves. Show this safety data sheet to the doctor in attendance.</i>
<i>Eye contact:</i>	<i>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.</i>
<i>Skin Contact:</i>	<i>Medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.</i>
<i>Ingestion:</i>	<i>If swallowed: 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</i>
<i>Inhalation:</i>	<i>Medical attention is required. Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use a barrier to give mouth-to-mouth resuscitation</i>

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

<i>General symptoms</i>	<i>None known</i>
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4.3. Indication of any immediate medical attention and special treatment needed

<i>Note to physicians</i>	<i>No data available</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>Formula C₃₀H₃₇NO₆ Carbon oxides, Nitrogen oxides (NO_x).</i>
<i>Advice for firefighters</i>	<i>Wear self-contained breathing apparatus for fire fighting if necessary. Wear a protective suit.</i>

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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Safety Data Sheet:

Cytochalasin-C

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 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 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.
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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep the 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).


Safety Data Sheet:

Cytochalasin-C

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	White powder
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:	ESTIMATE Oral, rat; LD50 =300 mg/kg Estimate based on experimental IP/ LD50 for mice and rats.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available


Safety Data Sheet:

Cytochalasin-C

Respiratory or skin sensitization/corrosion:	No data available
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11.1.2. Chronic toxicity

Chronic toxicity	No data available
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11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	Mutagenicity was reported in human and rodent cell cultures. EPA USA GENETOX PROGRAM 1988, Negative: <i>B subtilis</i> rec assay
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Carcinogenicity:	No data available
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Reproductive toxicity / Teratogenicity:	Hamster female, 8 days post-conception, IP 5 mg/kg: fetal death Specific Developmental Abnormalities - Central Nervous System Mouse female, 8 days post-conception, oral 1.5mg/kg Specific Developmental Abnormalities - :Central Nervous System, musculoskeletal system
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11.2. Additional information

RTECS number	HA5300500
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12. Ecological Information

Eco-Toxicity	No data available
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Other adverse effects	No data available
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13. Disposal Considerations
13.1. Waste treatment methods

Waste Disposal	Dispose of in accordance with local regulations
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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	ADR/RID	IATA	IMDG
UN Number UN proper shipping name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Cytochalasin-C)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Cytochalasin-C)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Cytochalasin-C)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Cytochalasin-C)
Transport Hazard Class & Packing Group	6.1 poison III	6.1 poison III	6.1 poison III	6.1 poison III

De Minimis exemption	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, packaging the does not have to be labeled as Dangerous Goods/Excepted Quantity.
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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)
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Safety Data Sheet:

Cytochalasin-C

EU ECHA Status

This product is registered with the EU ECHA, Number 244-803-6

REACH: PreRegistered

ANNEX III (criteria for 1 - 10 tonne registered substances): Listed

Reasons for listing

- a. Suspected hazardous to the aquatic environment
- b. Suspected persistent in the environment: predicted not readily biodegradable
- c. Suspected skin sensitiser
- d. Suspected toxic for reproduction

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 the 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. No-Copyright statement

Fermentek does not claim © copyright on this document. Fermentek believes that no one can claim copyright on an SDS. This sort of document is but a compendium of common knowledge and published facts. Fermentek explicitly releases this document into the public domain.

16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity	LD50:	Lethal dose, Median
CAS:	Chemical Abstracts Service	NFPA:	National Fire Protection Association USA
DOT:	US Department of Transportation	NIOSH:	National Institute for Occupational Safety
EINECS:	European Inventory of Existing Commercial Chemical Substances	OSHA:	Occupational Safety & Health
Eye Dam.:	Serious eye damage/eye irritation	PEL:	Permissible Exposure Limit
HSDB	Hazardous Substances Data Bank	REL:	Recommended Exposure Limit
HMIS:	Hazardous Materials Identification System (USA)	Repr.:	Reproductive toxicity
IATA:	International Air Transport Association	RTECS:	Registry of Toxic Effects of Chemical Substances
IMDG:	International Maritime Code for Dangerous Goods	Skin Irrit:	Skin corrosion/irritation
LC50:	Lethal concentration, Median	PBT:	Persistent, Bioaccumulative, and Toxic

16.6. End of SDS