

Safety Data Sheet: *Cytochalasin D*

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

Product identifiers			
Product name	<i>Cytochalasin D</i>	EC Number #	244-804-1
Product Code	CD	Formula	C₃₀H₃₇NO₆
CAS #	22144-77-0	M.W.	507.6
Source organism	<i>Zygosporium mansonii</i>	RTECS	GZ4850000
		Mixture? Substance	Not Mixture

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

Details of the supplier of the safety data sheet		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

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.

Section 2. Hazards identification

Classification of the substance or mixture

GHS Classification:

Acute Toxicity, Oral	(Category 2)	H300	Fatal if swallowed
Reproductive toxicity	(Category 2)	H361	Suspected of damaging fertility or the unborn child

GHS Label elements, including precautionary statements



Pictogram: Signal word: {DANGER}

GHS Hazard Statements

H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled.
H361	Suspected of damaging fertility or the unborn child

GHS Precautionary Statements

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/ protective clothing.
P284	Wear respiratory protection
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor



Section 3. *Composition/information on ingredients*

Substance	
Substance name:	Cytochalasin D
	CAS Registry #: 22144-77-0
	Molecular Formula: C30H37NO6 Molecular Weight: 507.6
	Acute Toxicity, Oral (Category 2)
	Acute Toxicity, Inhalation (Category 1)
	Reproductive toxicity (Category 2)
Mixture	Not Mixture

Section 4. *First Aid Measures*

Description of First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
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
Inhalation:	Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary Call a physician Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician
Skin Contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
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. If symptoms persist, call a physician.

Section 5. *Fire-fighting measures*

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
Hazardous combustion products	Carbon oxides, Nitrogen oxides (NOx)
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.



Section 6. *Accidental release measures*

Personal precautions, protective equipment and emergency procedures

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

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

Methods for containment:	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.
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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.
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Section 7. *Handling and storage*

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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Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C. Light sensitive Keep out of the reach of children.
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Incompatible materials:	None known based on information available
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Section 8. *Exposure Controls/Personal Protection*

Exposure Limits	No occupational exposure limits are listed for this material.
	OSHA Permissible Exposure Limits No Data Available
	NIOSH Recommended Exposure Limits No Data Available
	ACGIH Threshold Limit Values No Data Available

Engineering Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels low.
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Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems
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Work/Hygienic Practices	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work
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Personal protective equipment

Eye Protection:	Safety glasses
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Hand protection:	Protective Gloves: Compatible chemical-resistant gloves
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Body Protection:	Protective Clothing: Lab coat
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Respiratory protection:	Respiratory Equipment :NIOSH approved respirator
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Section 9. *Physical and chemical properties*

Physical / chemical properties

Physical State at room temperature	Solid / powder
Appearance	crystalline solid
Color	white
Melting/freezing point	215°C-226°C

No further safety relevant data are available

Section 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 decomposition products:	Carbon oxides, Nitrogen oxides

Section 11. *Toxicological information*

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity	
Oral	Mouse, Oral, LD50=36 mg/kg / source: JANTAJ Journal of Antibiotics 21,523,1968
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	Suspected germ cell mutagen. Laboratory experiments have shown mutagenic effects.
Carcinogenicity:	IARC : / NTP : / OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the or identified as a known or anticipated carcinogen by the National Toxicology Program or identified as a carcinogen or potential carcinogen by the Occupational Health and Safety Association.
Reproductive toxicity / Teratogenicity:	Suspected human reproductive toxicant, based on experiments in rodents. Mouse: TDLo 1.5 mg/kg, Oral Toxic Effects: Fertility - Post-implantation mortality Effects on Embryo or Fetus - Fetal death Specific Developmental Abnormalities - Central nervous system, musculoskeletal system
STOT-SE – single exposure (GHS):	No data available
STOT-RE – repeated exposure (GHS):	No data available
Aspiration hazard:	No data available
Additional information:	RTECS: RO0205000

Section 12. *Ecological Information*

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.



Section 13. *Disposal Considerations*

Waste treatment methods

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

Section 14. *Transport information*

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number UN proper shipping name	3462 Toxins, extracted from living sources, solid, n.o.s. (<i>Cytochalasin D</i>)	3462 Toxins, extracted from living sources, solid, n.o.s. (<i>Cytochalasin D</i>)	3462 Toxins, extracted from living sources, solid, n.o.s. (<i>Cytochalasin D</i>)	3462 Toxins, extracted from living sources, solid, n.o.s. (<i>Cytochalasin D</i>)
Transport Hazard Class & Packing Group	6.1 Pg II	6.1 Pg II	6.1 Pg II	6.1 Pg II

Small quantities	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 does not have to be labeled as Dangerous Goods/Excepted Quantity
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Section 15. *Regulatory information*

Safety, health and environmental regulations/legislation

USA/ TSCA	This product is not listed on the USA TSCA ("For research only")
SARA 302	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
SARA 311/312	Acute health hazard, chronic health hazard.
EU ECHA Status	This product is registered with the EU ECHA
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

Section 16. *Other information*

Date of revision: 3 March, 2020

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.

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End of SDS-----

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