





# 1. Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

Product name	Cylindrospermopsin	Formula	а	C15H21N5O7S
Product Code	CYL	<b>RTECS</b>		<u>UV9104310</u>
CAS#	<u>143545-90-8</u> (PubChem)	Molecu	lar weight	415.43 g/mol
EU ECHA#	<u>802-929-4</u> (ECHA)	Substan	ce? Mixture?	Substance
HSDB#	<u>7752</u>			
USA EPA	<u>DTXSID2031083</u>			
T3DB#	<u>T3D4232</u>	PubChe	rm	<u>135565888</u>
Synonyms	$2,4(1H,3H)$ -Pyrimidinedione, $6$ -(hydroxy(2,2a,3,4,5,5a,6,7-octahydro-3-methyl-4-(sulfooxy)-1H-1,8,8b-triazaacenaphthylen-7-yl)methyl)-, (2a-alpha,3-alpha,4-alpha,5a-alpha,7-beta( $R^*$ ))-(-)-			
Source	Chrysosporum ovalisporum		Version Date	1 May, 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. Not a drug,

Laboratory reagent. Not a food additive

Reference material. Not to be used in humans or animals.

Manufacturing of substances.

To be used by professionals only

#### 1.3. Contacts

Israel

### 1.3.1. Details of the supplier of the SDS

FERMENTEK ltd Tel: +972 2 5853953 4 Yatziv street. POB 47120 Fax: +972 2 5853943

Jerusalem 97800, 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)

Accute toxicity: Oral	Category 2	H300	Fatal if swallowed
Eye irritation	Category 2B	H318	Causes eye irritation
Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Reproductive toxicity	Category 1A,1B	H360	May damage fertility or the unborn child

### 2.2. GHS Label elements, including precautionary statements

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

2.2.2. Hazard Statements

1.2.2. Huzura Diatements	
H300	Fatal if swallowed
H318	Causes eye irritation
H315	Causes skin irritation

#### 2.2.3. GHS Precautionary Statements

2.2.3.	GHS Frecautionary Su	utements
P20.	3	Obtain, read and follow all safety instructions before use.
P26	1	Avoid breathing dust or mist.
P26	4	Wash {hands} thoroughly after handling.
P27	0	Do not eat, drink or smoke when using this product.
P27.	2	Contaminated work clothing should not be allowed out of the workplace.
P28	9	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

#### 2.2.4. GHS Response Phrases:

P301+P310,	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P263	Avoid contact during pregnancy/while nursing
P281	Use personal protective equipment as required.

# 3. Composition/information on ingredients

Substance	
Substance Name:	Cylindrospermopsin
Concentration	<=100%
CAS Registry#:	143545-90-8
EC#:	802-929-4
Molecular Formula:	C15H21N5O7S
Molecular Weight:	415.43 g/mol
Classification	Acc O:3 (H301)

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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 None known

### 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	

#### 5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur dihydrogene, Formula C15H21N5O7S
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.

### 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-		
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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.

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
8.2. Exposure controls	
Appropriate engineering	Showers, Eyewash stations, Ventilation systems
controls	Avoid contact with skin, eyes, and clothing.
	Wash hands before breaks and immediately after handling the product.
	Use fume-hood for routine work.

#### 8.3. Personal protective equipment

[PPE=Personal Protection Fauinment]

[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)	

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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 exidizers
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, Mouse, LD50= 10 mg/kg Estimated from IP data.  (IP) Intraperitoneal, Mouse, LD50= 2.1 mg/kg  No other acute toxicity information available.
Skin corrosion/irritation:	Skin Irritation has been reported
Serious eye damage/eye irritation:	Eye Irritation has been reported
Respiratory or skin sensitization/corrosion:	No data available
Symptoms	Liver: hepatitis (hepatocellular necrosis), zonal; Kidney, ureter, and bladder: other changes; Blood: changes in spleen

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11.1.2. Chronic toxicity

Chronic toxicity No data available

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

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Germ cell mutagenicity:	Possible mutagene.
Carcinogenicity:	Not classified by IARC
Reproductive toxicity /	Reproductive - maternal effects - uterus, cervix, vagina.
Teratogenicity:	Reproductive - fertility - litter size.
	Reproductive - specific developmental abnormalities - gastrointestinal
	system.
	Reproductive - reduced weight gain

11.2. Additional information

RTECS number	UV9104310
General symptoms	No data available

### 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

	US DOT	ADR/RID	IATA	IMDG
UN Number UN proper shipping name	UN 3462 Toxins, Extracted from Living Sources, Solid, N.O.S. (Cylindrospermopsi n)	UN 3462 Toxins, Extracted from Living Sources, Solid, N.O.S. (Cylindrospermopsi n)	UN 3462 Toxins, Extracted from Living Sources, Solid, N.O.S. (Cylindrospermopsi n)	UN 3462 Toxins, Extracted from Living Sources, Solid, N.O.S. (Cylindrospermopsi n)
Transport Hazard Class;Packin g Group	Class 6.1 (Poison) Packing group II			
Comments				Not a 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)

EU ECHA Status

This product is registered with the EU ECHA, Number 802-929-4

REACH: Neither Registered nor PreRegistered.

ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

#### 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 proces, 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

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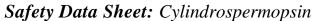
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#### 16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
DOT:	US Department of Transportation
ЕСНА	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation
HSDB	Hazardous Substances Data Bank
HMIS:	Hazardous Materials Identification System (USA)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose, Median









NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry of Toxic Effects of Chemical Substances
Skin Irrit:	Skin corrosion/irritation
STOT/SE	Specific target organ toxicity/Single exposure
STOT/RE	Specific target organ toxicity/Repeated exposure
T3DB	Toxin and Toxin Target Database
TDL0	Toxic dose, least published

16.6. End of SDS

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