



Safety Data Sheet HIC COXUN

# Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS HC Toxin vers 8-2024

Page 1 of 9

1. Identification of the Substance and the Manufacturer					
Product identifiers					
Intended uses of	f the Substance and u	ses advised agains	t		
Product name	<u>HC toxin</u>	Formula		<i>C21H32N4O6</i>	
Product Code	НС	Molecular weight		436.50 g/mol	
CAS#	<u>83209-65-8</u>	Mixture?		Subs	tance
<u>ECHA</u> #	<u>804-302-0</u>	<u>PUBCHEM</u>		<u>HC</u>	<u>Toxin</u>
Comptox EPA	<u>001003201</u>	<u>RTECS</u>		-Not	Listed-
CHEBI	<u>CHEBI:48028</u>				
Swhonwers and	HC Toxin Helm	ninthosporium Carbonum Toxin I			
Synonyms and other names $IUPAC: (3S, 6R, 9S, 14aR) - 3, 6-Dimethyl-9-{6-[(2S)-2-oxiranyl]-6-oxohexyl}decahydropyrrolo[1,2-a][1,4,7,10]tetraazacyclododecine-1,4,7,10-tetr$			e-1,4,7,10-tetrone		
Source	From: Helminthosporium	n carbonum	Vers Date		9 October, 2024
Intended use:		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

**Contacts** 

Details of the supplier of the SDS		
FERMENTEK ltd	<i>Tel:</i> +972 2 5	853953
4 Yatziv street, POB 47120	<i>Fax:</i> +972 2.	5853943
Jerusalem 97800,	eMail:	<u>Fermentek@Fermentek.com</u>
Israel		<u>Safety@Fermentek.com</u>
	Website:	<u>Fermentek.com</u>

This company is the manufacturer of the product and the supplier of the safety data sheet *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









SDS HC Toxin vers 8-2024

Page 2 of 9

## 2. Hazards' identification.

Classification of the Substance.

To our judgement, hazards of this substance have not been thoroughly investigated			
GHS C	GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)		
Accute	Accute toxicity / oral Category 3 H302 Toxic if inhalled		
2.1.	2.1. GHS Label elements, including precautionary statements		
2.1.1.	2.1.1. Pictogram: { Signal word: {Danger}		

2.1.2. Hazard Statements

.1.4.	magara Diatements		
H302	$\odot$ Toxic if inhalled		

110 0 -	• I once ij initalied	
2.1.3.	GHS Precauti	onary 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
GHS Respon	nse Phrases:	

P308+P313

IF exposed or concerned: Get medical advice/attention

#### 3. Composition/information on ingredients

#### Substance

Substance	
Substance Name:	HC toxin
Concentration	<=100%
CAS Registry#:	83209-65-8
<i>EC</i> #:	804-302-0
Molecular Formula:	C21H32N4O6
Molecular Weight:	436.50 g/mol
Classification	Not toxic
Mixture?	Substance

# 4. First Aid Measures.

Description of First Aid Measures.

General advice: First-aiders need to protect themselves.









SDS HC Toxin vers 8-2024

Page 3 of 9

	If medical attention is required, show this safety data sheet to the doctor in attendance.	
Ingestion:	f swallowed: give water to drink (two glasses at most). Seek medical dvice immediately.	
Most important symptoms a	and effects, both acute and delayed	
General symptoms	See section 11	
Indication of any immediat	e medical attention and special treatment needed	
Note to physicians	No data available	
5. Fire-fighting med Extinguishing media.	isures.	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Unsuitable extinguishing medic	n None known	
Other information		
Hazardous combustion product	Carbon oxides, Nitrogene oxides C21H32N4O6	
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.	
6. Accidental releas Personal precautions, prote	e measures ective equipment, and emergency procedures	
Personal precautions	<i>Use personal protective equipment as required. Keep people away from und upwind of spill/leak.</i>	
Environmental precautions	S .	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.	
Methods and material for c	ontainment 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.	









SDS HC Toxin vers 8-2024

Page 4 of 9

7. Handling and sto Precautions for safe handli	0	
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.	
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 Contro	ls/Personal Protection	
miniscule amounts, while toxic or otherwise hazard perform a risk assessmen The type of protective equ concentration of all dang	oncern would be present at the intended workplace in surrounded by considerable amounts of other flammable, lous substances. Therefore, the employer/user should t prior to the use of this product. upment must be selected based on the amount and eerous materials being used in the workplace. luded in this document are advisory in nature	
Control parameters		
Control parameters	Components with workplace control parameters	
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.	

## Personal protective equipment

[PPE=Personal Protection Equipment]







#### Safety Data Sheet HIC COXUN

## Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS HC Toxin vers 8-2024

Page 5 of 9

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. 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

The information given here does not purport specification of warranty of any kind. It 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.

## Physical/chemical properties

Appearance Powder, DARK RED

No further safety relevant data are available

#### 10. Stability and reactivity

10. Stubility 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	









SDS HC Toxin vers 8-2024

Page 6 of 9

### 11. Toxicological information Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet. *Acute Toxicity* 

Acute toxicity:	Oral, Mouse, LD50=>50 mg/kg			
	Intrapetoneal, Mouse, LD50=14.8 mg/kg			
	No other acute toxicity available.			
Skin corrosion/irritation:	No data available			
Serious eye damage/eye irritation:	No data available			
Respiratory or skin sensitization/corrosion:	No data available			
Chronic toxicity				
Chronic toxicity	No data available			
CRM (Carcinogene, Mutagene, Rep	productive hazards)			
Germ cell mutagenicity:	No data available			
Carcinogenicity:	Not classified by IARC			
<i>Reproductive toxicity / Teratogenicity:</i>	No data available			
Additional information				
RTECS number	-Not Listed-			
General symptoms				
12. Ecological Informat	ion			
Eco-Toxicity	No data available			
Other adverse effects	No data available			
13. Disposal Considerat	ions			
Waste treatment methods				
Waste Disposal	Dispose of in accordance with local regulations			
Contaminated packaging	Dispose of as unused product			
14. Transport information	on			
UN Number, Proper Shipping	Name, Transport Hazard Class, packing group			
IATA	IMDG ADR/RID US/DOT			







#### Safety Data Sheet HIC COXUN

# Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS HC Toxin vers 8-2024

Page 7 of 9

UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (HC toxin)			
Transport hazard Class, Packing group	6.1 poison PG III	6.1 poison PG III	6.1 poison PG III	6.1 poison PG III
Comments		Not marine polutant		

# 15. Regulatory information

#### 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 804-302-0 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed







# Safety HIC COXUN

# Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS HC Toxin vers 8-2024

Page 8 of 9

## 16. Other information

Version information

Version date:

Toxicity data missing or unaccessible

#### Department issuing this SDS

Quality systems and regulatory affairs

#### 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 explicitly specified in the text.

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 flammable, toxic or otherwise hazardous substances.

Therefore, the employer/user should perform a risk assessment by 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.

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End of SDS







# Safety HIC COXUN

# Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS HC Toxin vers 8-2024

Page 9 of 9

#### Appendix A : Abbreviations and acronyms:

<b>II</b> I I I I I I I I I I I I I I I I I				
	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active			
	on glass screens, not on paper.			
	"Synthetic" means this compound has been manufactured by chemical conversion of another product of			
Synthetic / From	ours.			
	"From" means the compound was extracted from biomass, whther algal, fungal, microbial or plant material			
Mixture/Substance/ Complex	Substance means a single compound. ,			
	Mixture means there are two or more pure substances mixed purposely.			
	<b>Complex</b> is a mixture of two or more substances which naturally occur together and are sold unseparated			
Acute Tox.:	Acute toxicity			
CAS:	Chemical Abstracts Service			
ChEBI	Chemical Entities of Biological Interest			
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)			
DOT:	US Department of Transportation			
ЕСНА	European Chemicals Agency			
EINECS:	European Inventory of Existing Commercial Chemical Substances			
EPA	United States Environmental Protection Agency			
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			
LDLO	Letal dose, leatst published			
NDG	Not dangerous goods (for transport)			
NFPA:	National Fire Protection Association USA			
NIOSH:	National Institute for Occupational Safety			
NOAEL	No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test			
OSHA:	Occupational Safety & Health			
PBT:	Persistent, Bioaccumulative, and Toxic			
PEL:	Permissible Exposure Limit			
PubChem	An open chemistry database at the National Institutes of Health (NIH). "			
REL:	Recommended Exposure Limit			
Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.			
RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.			
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			
TDLO				

