



Page 1 of 9

Safety		
Data	Nourseothricin	<u>ตกภุโไร้การ์ค</u>
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Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Nourseothricin vers 8-2024

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	Nourseothricin sulfate		Formula		C19H36N8O12S	
Product Code	NOU-001		Molecular	r weight	600.60 g /mol	
CAS	96736-11	-7	Mixture?		Substance	
<u>ECHA</u>	<u>635-448-</u>		PUBCHE	<u>M</u>	Nourseothricin	
			<u>RTECS</u>		RD4240000	
Comptox EPA	80105580	<u>5</u> A	<u>CHEBI</u>		<u>CHEBI:201474</u>	
Streptothricin F		icin F			clonNAT	
Synonyms and	Streptothr	icin complex	Streptothricins		Nourseothricin	
other names (2R,3R,4S,5R,6R)-6-{[(3aS,7R c]pyridin-2-ylidene]amino}-5- (hydroxymethyl)oxan-3-yl card		ylidene]amino}-5-[(.	3S)-3,6-diam	inohexanamido		
Source	From: Streptomyces sp.		Vers	tion Date	11 October, 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		Manufacturing of Not a		Not a drug,	ot a drug,	
development. subs		substances.	ubstances. Not a food a		additive	
Laboratory reagent. To be used by		To be used by	Not to be used in humans or			
Reference material.		professionals only anim		animals.		
1.2 Contracta						

1.3. Contacts

1.3.1. Details of the supplier of the SDSFERMENTEK ltdTel: +972 2 58539534 Yatziv street, POB 47120Fax: +972 2 5853943Jerusalem 97800,eMail: Fermentek@Fermentek.comIsraelSafety@Fermentek.comWebsite: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



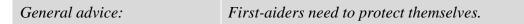


Safety Data Sheet Nourseothricin sulfate				
Sections	1 2 3 4	<u>567</u>	<u> </u>	<u>0 11 12 13 14 15 16</u>
SDS Nour	seothricin vers 8	2-2024		Page 2 of 9
2. Ha	zards' identifi	cation.		
	ssification of th			
	v v		Reg. 127	72/2008 and US OSHA 1910.1200)
Accute toxic	rity: Oral	Category 4	H302	Harmful if swallowed (based on estimate)
2.2. GH	S Label elemen	ts, including p	orecauti	ionary statements
H302		Harmful if s	wallowe	ed
2.2.3. GH	S Precautionary St	atements		
P203		Obtain, read a	nd follov	w all safety instructions before use.
P261	P261 Avoid breathing dust or mist.		r mist.	
P264		Wash {hands}	thorough	hly after handling.
P270		Do not eat, dri	ink or sm	noke when using this product.
P272		Contaminated	work clo	othing should not be allowed out of the workplace.
P280		Wear protectiv protection/hea		/protective clothing/eye protection/face tection
2.2.4. GH	S Response Phrase	·s:		
P301+P317	7; P330	IF SWALLOW	ED: Get	medical help. Rinse mouth.
3. <i>Co</i>	mposition/info	ormation on	ingrea	dients
Substance	2			
Substance N	Substance Name: Nourseothricin sulfate		2	
Concentration <=100%				
CAS Registry#: 96736-11-7				
EC#: 635-44		635-448-1		
Molecular Formula:		C19H36N8O12S		
Molecular W	Molecular Weight: 600.60 g /mol			
Classification Acc O:4 (H302)				

4. First Aid Measures.

Mixture?

4.1. Description of First Aid Measures.



Substance







Safety Data Sheet Nourseothricin sulfate

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

SDS Nourseothricin vers 8-2024

NUMBER OF PO

Page 3 of 9

		If medical attention is required, show this safety data sheet to the doctor in attendance.
Inges	tion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
4.2.	Most important syn	nptoms and effects, both acute and delayed
Gene	ral symptoms	See section 11
<i>4.3</i> .	Indication of any in	mmediate medical attention and special treatment needed
Note	to physicians	No data available
5.	Fire-fighting me	asures.
5.1.	Extinguishing med	lia.
Suita	ble extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsu	itable extinguishing medi	a None known
5.2.	Other information	
Haza	rdous combustion produc	ets Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur hydrogene C19H36N8O12S
Advic	ce for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.
6.	Accidental releas	se measures
6.1.	Personal precautio	ns, protective equipment, and emergency procedures
Perso	onal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
<i>6.2</i> .	Environmental pre	cautions
Envir	conmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<i>6.3</i> .	Methods and mater	rial for containment and cleaning up
Meth	ods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spin with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Meth	ods 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





Page 4 of 9



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

SDS Nourseothricin vers 8-2024

	minimize spreading. Sweep up and shovel into suitable containers for disposal.
7. Handling and st	orage
7.1. Precautions for say	fe 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

Attiention:

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 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

8.1. Control parameters

1	
Control parameters	Components with workplace control parameters
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.
	•

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]







Safety Data Sheet Nourseothricin sulfate

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

SDS Nourseothricin 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.

9.1. Physical/chemical properties

Physical State at room temperature Solid

Appearance	White to faint brown powder
Appearance	while to juint brown 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 exidizers		
Possibility of hazardous reactions	None under normal processing		
Hazardous combustion products	See section 5		







Page 6 of 9

Safety		-
Data	Nourseothricin	<u>ตกาไไร์การ์ค</u>
Sheet	I VUUUDGUDGUGUUGUUG	DUUJUUU

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

SDS Nourseothricin vers 8-2024

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, Mouse, LD50=2 gr/kg Oral, Rat, LD50=1185 mg/kg Intravenous, Rat, LD50=20.8 mg/kg No other acute toxicity available.
Skin corrosion/irritation:	Inhalation: No data available Dermal: No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	data available

11.1.2. Chronic toxicity

Chronic toxicity	No data available
11.1.3. CRM (Carcinogene, Mutag	gene, Reproductive hazards)
Germ cell mutagenicity:	No data available
Carcinogenicity:	Not listed by IARC
<i>Reproductive toxicity / Teratogenicity:</i>	No data available

11.2. Additional information

RTECS number	RD4240000
General symptoms	Behavioral:Tremor. Lungs, Thorax, or Respiration:Dyspnea. Diarrhea

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







Page 7 of 9

Safety Data Sheet Nourseothricin sulfate

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

SDS Nourseothricin vers 8-2024

14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	IATA	IMDG	ADR/RID	US/DOT
UN Number,	Not hazardous	Not hazardous	Not hazardous	Not hazardous
Proper	(Nourseothricin	(Nourseothricin	(Nourseothricin	(Nourseothricin
shipment name	sulfate)	sulfate)	sulfate)	sulfate)
Transport	Not hazardous for	Not hazardous for	Not hazardous for	Not hazardous for
hazard Class,	transport	transport	transport	transport
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Comments		Not marine polutant		

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 635-448-1 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

16. Other information

16.1. Version information

Version date:8-2024 Updated hazard levels. Updated Transportation classification

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 process, unless explicitly 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 flammable, toxic or otherwise hazardous substances.







Safety		
Data	Nourseothricin	<u>ตากไไร์การ์ค</u>
Sheet	I V W UU D G W UU U U G UU U	NUUUJUUUG

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

SDS Nourseothricin vers 8-2024

Page 8 of 9

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.

16.5. No © copyright



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16.6. End of SDS







Safety		-
Data	Nourseothricin	<u>ตาก] {ก็การ์ค</u>
Sheet	I VUUU DEUUUU UEUUU	DUUUJUUUE

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

SDS Nourseothricin vers 8-2024

Page 9 of 9

16.7. Appendix A : Abbreviations and acronyms:

	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.	
	"From" means the compound was extracted from biomass, whether algal, fungal, microbial or plant	
From /Synthetic	material	
/Semisynthetic	"Synthetic" means this compound has been manufactured by chemical conversion of another compound.	
	<i>Often, certain product is made by the method of microbial fermentation, purified, and then chemically</i>	
	converted into another compound. It may be called "semisynthetic".	
	Substance means a single compound.,	
Mixture/Substance/	Mixture means there are two or more pure substances mixed purposely.	
Complex	Complex 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	
ECHA	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	
LDL0	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	
TDL0	Toxic dose, least published	

