



Page 1 of 9

Safety Data Sheet

Ascomycin

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

SDS Ascomycin vers 8-2024

### 1. Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

Product name	Ascomycin A		Formula		С43Н69	PNO12
Product Code	ASC-001		Molecular weight		792.01	g/mol
<u>CAS</u>	104987-12-4	Ð	Mixture?		Substar	псе
<u>ECHA</u>	<u>435-850-5</u> @		<u>PUBCHEM</u> ⁄ 🖰		<u>528207</u>	<u>'1</u>
			<u>RTECS</u>		KD418	35000
Comptox EPA	DTXSID80894	<u>4126</u> 🕀	<u>CHEBI</u>		<u>CHEBI</u>	<u>:29582 🕀</u>
	Immunomycin	FK520	FR 900520			
Synonyms and other names	$\begin{array}{l} 15, 19\mbox{-}Epoxy\mbox{-}3H\mbox{-}pyrido(2,1\mbox{-}c)(1,4) oxaazacyclotricosine\mbox{-}1,7,20,21(4H,23H)\mbox{-}tetrone, \\ 5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a\mbox{-}hexadecahydro\mbox{-}5,19\mbox{-}dihydroxy\mbox{-}8\mbox{-}ethyl\mbox{-}3\mbox{-}ethyl\mbox{-}1,12,13,14,15,16,17,18,19,24,25,26,26a\mbox{-}hexadecahydro\mbox{-}5,19\mbox{-}dihydroxy\mbox{-}8\mbox{-}ethyl\mbox{-}3\mbox{-}ethyl\mbox{-}1,12,13,14,15,16,17,18,19,24,25,26,26a\mbox{-}hexadecahydro\mbox{-}5,19\mbox{-}dihydroxy\mbox{-}8\mbox{-}ethyl\mbox{-}3\mbox{-}ethyl\mbox{-}1,12,13,14,15,16,17,18,19,24,25,26,26a\mbox{-}hexadecahydro\mbox{-}5,19\mbox{-}dihydroxy\mbox{-}8\mbox{-}ethyl\mbox{-}3\mbox{-}ethyl\mbox{-}1,12,18\mbox{-}tetramethyl\mbox{-},(3S\mbox{-}(3R\mbox{-}(E(1S\mbox{-}3,S\mbox{-}4,3S\mbox{-}4,10,12,18\mbox{-}tetramethyl\mbox{-},(3S\mbox{-}(3R\mbox{-}(E(1S\mbox{-}3,S\mbox{-}4,3S\mbox{-}4,3S\mbox{-}1,26\mbox{-}4,10,12,18\mbox{-}tetramethyl\mbox{-},(3S\mbox{-}(3S\mbox{-}(2,23\mbox{-}4,3S\mbox{-}4,3$					

From: Streptomyces hygroscopicus subsp. ascomyceticus Ve

Version Date 6 October, 2024

### 1.2. Intended uses of the Substance and uses advised against

Research and development. Manufacturing of substances. Not a drug,	1.2.1. Intended use:		1.2.2. Uses advised against:
	Research and development.	Manufacturing of substances.	Not a drug,
Laboratory reagent.To be used by professionalsNot a food additive	Laboratory reagent.	To be used by professionals	Not a food additive
Reference material.onlyNot to be used in humans or animal	Reference material.	only	Not to be used in humans or animals.

#### **1.3.** Contacts

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

FERMENTEK ltd	Tel: +972 2 585	3953	
4 Yatziv street, POB 47120	<i>Fax:</i> +972 2 5853943		
Jerusalem 97800,	eMail:	Fermentek@Fermentek.com	
Israel		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





Ascomycin

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

SDS Ascomycin vers 8-2024

### 2. Hazards' identification.

### 2.1. Classification of the Substance.

To our judgement, hazards of this substance have not been thoroughly investigated Other authors have classified this substance as H300, H310, H330 (Fatal if swallowed, inhaled or in contact with skin, and H350 may cause cancer. To our opinion, these claims are neither proven experimentally, nor based on available literature 2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200) Accute toxicity: Oral Category 4 H302 Harmful if swallowed (based on estimate) 2.2. GHS Label elements, including precautionary statements Pictogram: { Signal word: { Warning } 2.2.1. 2.2.2. Hazard Statements H302 Harmful if swallowed (based on estimate) 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:** IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell. P301+P312, P330 Rinse mouth Composition/information on ingredients *3*. **Substance** Substance Name: Ascomycin <=100% **Concentration** CAS Registry#: 104987-12-4 *EC#*: 435-850-5 Molecular Formula: C43H69NO12 Molecular Weight: 792.01 g/mol Classification Acc 0:3 (H301)





Page 2 of 9





Page 3 of 9

Safety Data Sheet

Ascomycin

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

SDS Ascomycin vers 8-2024

Mixtu	re?	Substance			
<b>4</b> .	First Aid Measur				
<b>4</b> .1.	Description of First				
	ral advice:	<i>First-aiders need to protect themselves.</i> <i>If medical attention is required, show this safety data sheet to the doctor in attendance.</i>			
Ingest	tion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.			
4.2.					
		ee section 11			
<i>4.3</i> .	4.3. Indication of any immediate medical attention and special treatment needed				
Note a	to physicians	No data available			
5. Fire-fighting measures.					
5.1. Extinguishing media.					
Suital	ble extinguishing media	<i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i>			
Unsuitable extinguishing media		None known			
5.2. Other information					
Hazai	rdous combustion product	s Carbon oxides, Nitrogene oxides, C43H69NO12			
Advic	e for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.			
<i>6</i> .	Accidental releas	e measures			
<i>6.1</i> .	Personal precaution	ns, protective equipment, and emergency procedures			
Perso	nal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.			
<i>6.2</i> .	Environmental prec	cautions			
Envir	onmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.			







Ascomycin

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

SDS Ascomycin vers 8-2024

Page 4 of 9

#### 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-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			

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

Control parameters

Components with workplace control parameters





Ascomycin

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

SDS Ascomycin vers 8-2024

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 Equ	uipment]
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 powder

No further safety relevant data are available





Page 5 of 9





Ascomycin

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

SDS Ascomycin vers 8-2024

Page 6 of 9

### 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

▶Estimate   Oral, Mouse, LD50>500 mg/kg Experimental: Intrapetoneal, Mouse, LD50>100 mg/kg [RTECS 5-2024]				
No data available				
No data available				
No data available				
No data available				
11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)				
No data available				
Not classified by IARC				
No data available				
KD4185000				
No data available				
ion				
No data available				







Ascomycin

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

SDS Ascomycin vers 8-2024

Page 7 of 9

Other adverse effects No data available **Disposal Considerations** *13*. 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 IATA IMDG ADR/RID US/DOT UN Number Not elegation Not algorified NT . 1 · C· 1 NT . 1 · C· 1

ON Number, Proper	Not classified	Not classifiea	Not classifiea	Not classified
shipment name	(Ascomycin)	(Ascomycin)	(Ascomycin)	(Ascomycin)
Transport hazard Class, Packing group	Not hazardous for transport 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 StatusThis product is registered with the EU ECHA, Number 435-850-5REACH: RegisteredANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed	

### 16. Other information

#### 16.1. Version information

Version date:8-2024

#### 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.





# Ascomycin

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

SDS Ascomycin vers 8-2024

Page 8 of 9

### 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.

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







# Ascomycin

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

### SDS Ascomycin vers 8-2024

Page 9 of 9

### 16.7. Appendix A : Abbreviations and acronyms:

A	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
Energy (Saudh atta	material
From /Synthetic /Semisynthetic	"Synthetic" means this compound has been manufactured by chemical conversion of another compound.
	Often, certain product is made by the method of microbial fermentation, purified, and then chemically
	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
CNS	Central nervous system
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

