

Helvolic acid

1. Identification of the Substance and the Manufacturer

1.1. Product	identifiers			
Product name	<u>Helvolic acid</u>		rmula	C33H44O8
Product Code	HV		ECS	RC1370000
CAS #	<u>29400-42-8</u>	Ma	olecular weight	568.70 g/mol
ECHA#	Not listed	Su	bstance? Mixture?	Substance
Synonyms	 Fumigacin (Chemical name) Helvolic acid 16-(Acetyloxy)-3,7-dioxo-29-nordammara-1,17(20),24-trien-21-oic acid 29-Nordammara-1,17(20),24-trien-21-oic acid, 6,16-bis(acetyloxy)-3,7-dioxo-, (4-alpha,6-beta,8-alpha,9-beta,13-alpha,14-beta,16-beta,17-beta)- 			
SourceCephalosporium caerulensVersion Date9 October, 20241.2.Intended uses of the Substanceand uses advised against1.2.1.Intended use:1.2.2.Uses advised against:				
Research and development. Laboratory reagent. Reference material. Manufacturing of substances. To be used by professionals only 1.3. Contacts 1.3.1. Details of the supplier of the SDS		Not a drug, Not a food additive Not to be used in humans or animals.		
FERMENTEK ltdFERMENTEK ltd4 Yatziv street, POB 47120Jerusalem 97800,Israel			2 2 5853953 72 2 5853943 <u>Fermentek@I</u> <u>Safety@Ferm</u> <u>Fermentek.co</u>	

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).

Not a hazardous Substance according to Regulation (EC) No. 1272/2008.

2.2. GHS Label elements, including precautionary statements

Not a hazardous Substance according to Regulation (EC) No. 1272/2008.

2.2.1. Pictogram: { none} Signal word: none

- 2.2.2. Hazard Statements NONE
- 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:NONE

3. Composition/information on ingredients

Substance	
Substance Name:	Helvolic acid
Concentration	<=100%
CAS Registry#:	29400-42-8
<i>EC#</i> :	Not listed
Molecular Formula:	C33H44O8
Molecular Weight:	568.70 g/mol
Classification	Not classified
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 all contaminated clothing. Rinse skin with water/ shower.	
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical attention if you feel unwell.	
Inhalation:	If inhaled, move the person into fresh air.	
4.2. Most important symptoms and effects, both acute and delayed		
General symptoms	None known	

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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	
Hazardous combustion products	Carbon oxides Formula C33H44O8
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 protect	ve equipment as	s required.	Keep people away from
	and upwind of spill/le	eak.		

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.
<i>Methods for cleaning up:</i>	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

breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.	o not
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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.

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8. **Exposure Controls/Personal Protection** 8.1. **Control parameters** Components with workplace control parameters 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 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) PPE: Skin and Body Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid **Protection:** 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

Solid
White to Off-White powder
are available
ctivity
No information available.
Stable under normal conditions.
Heat, flames and sparks. Sunlight.
Strong reducers and exidizers
None under normal processing

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Transport Hazard

Class & Packing

Group

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Harandous combustion	Sac acation 5
Hazardous combustion	See section 5
products	
producis	

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:	estimated f	ESTIMATED: Oral, Mouse; LD50 = 5000 mg/kg estimated from experimental data: Intravenous, mouse LDL0=500mg/kg; Intraperitoneal Mouse LD50: 400 mg/kg				
Skin corrosion/irritation:	No data av	No data available				
Serious eye damage/eye irritation:	No data av	No data available				
Respiratory or skin sensitization/corrosion:	No data av	No data available				
<i>11.1.2. Chronic toxicity Chronic toxicity</i>	No data av	ailabla				
•		No data available tagene, Reproductive hazards)				
Germ cell mutagenicity:		No data available				
Carcinogenicity:	No data av	No data available				
<i>Reproductive toxicity / Teratogenicity:</i>	No data ave	No data available				
11.2. Additional info	rmation					
RTECS number	RC1370000	RC1370000				
General symptoms						
12. Ecological In	formation					
Eco-Toxicity	No data av	No data available				
Other adverse effects	No data av	No data available				
13. Disposal Con	siderations					
13.1. Waste treatmen	et methods					
Waste Disposal	Dispose of	Dispose of in accordance with local regulations				
Contaminated packaging	Dispose of	Dispose of as unused product				
14. Transport inf	formation					
14.1. UN Number, Pr	roper Shipping I	Name, Transport I	Hazard Class, pac	king group		
Ĩ	US DOT	ADR/RID	IATA	IMDG		
UN proper shipping	Not dangerous goods. Not regulated	Not dangerous goods. Not regulated	Not dangerous goods. Not regulated	Not dangerous goods. Not regulated		

Not dangerous

Not regulated

goods.

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Additional information

Safety Data Sheet:

Not marine pollutant

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) Hazardous Air Pollutants Substance is not listed.	
Sara	Section 355 (extremely hazardous substances): Substance is not listed. Section 313 (Specific toxic chemical listings): Substance is not listed.	
Proposition 65	Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive toxicity for females: Substance is not listed. Chemicals known to cause reproductive toxicity for males: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed.	
EU ECHA Status	This product is NOT REGISTERED with the EU ECHA as of 10.2024 REACH: Neither Registered nor Pre-Registered. 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

Fermentek does not claim © copyright on this document.

Fermentek believes that no one can claim copyright on an SDS.

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This sort of document is but a compendium of common knowledge and published facts.

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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	

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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
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
TDL0	Toxic dose, least published

16.6. End of SDS

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