



Safety Data Sheet: Satratoxin H

1. Identification of the substance/mixture and of the Company

1.1. Product identifiers

Product name	Satratoxin H	Formula	C ₂₉ H ₃₆ O ₉
Product Code	SAH	RTECS	VQ5950000
CAS #	53126-64-0	Molecular weight	528.59
EC Number #	Not listed (as at nov 2022)	Substance? Mixture?	Substance
Synonyms	Spiro(5,9,16,18-dimethano-1H,3H,23H-(1,6,12)trioxacyclooctadecino(3,4-d)(1)benzopyran-17(18H),2'-oxirane)-3,14(9H)-dione, 6,7,16,16a,19a,22-hexahydro-25-hydroxy-9-((1S)-1-hydroxyethyl)-16a,21-dimethyl-, (2'R,4E,9R,10E,12Z,16R,16aS,18R,19aR,23aR,25R)-		
Source	Stachybotrys chartarum	Date of version	26 November, 2022

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use:	1.2.2. Uses advised against:
<ul style="list-style-type: none"> • Research and development. • Laboratory reagent. • To be used by trained professionals only • For further processing 	<ul style="list-style-type: none"> • Not a drug, • Not food additive • Not to be used in humans or animals.

1.3. Details of the supplier of the SDS	1.4. Emergency Telephone number
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	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

Tel: +972 2 5853953
 Fax: +972 2 5853943
 eMail: fermentek@fermentek.com
 Website: www.fermentek.com

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

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)

Some other vendors claim this compound to be not classifiable according to GHS.

Accute tox (O)	(Category 3)
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2.2. GHS Label elements, including precautionary statements

Pictogram: { } **Signal word** { **Danger** }

2.2.1. GHS Hazard Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
P264	Wash {hands} thoroughly after handling



Safety Data Sheet: Satratoxin H

P270	Do not eat, drink, or smoke when using this product
P280	Wear protective gloves/ protective clothing
P284	Wear respiratory protection.

2.2.2. GHS Response Phrases

P301+P312	If swallowed: call a poison center/doctor
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.

	None
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2.2.3. GHS Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth

2.3. Adverse Human Health Effects and Symptoms:

	Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
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2.4. Other hazards

2.4.1. Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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3. Composition/information on ingredients

Substance	
Substance name:	Satratoxin H
Concentration	100%
CAS Registry#:	53126-64-0
EC#:	Not listed
Molecular Formula:	C ₂₉ H ₃₆ O ₉
Molecular Weight:	528.59



Safety Data Sheet: Satratoxin H

Classification	Oral cat 3	
Mixture?	Substance .	

4. **First Aid Measures**

4.1. **Description of First Aid Measures**

General advice:	If medical attention is required, show this safety data sheet to the doctor/physician.
Inhalation:	Inhalation may cause nausea and vomiting. May cause dizziness and headache. Seek medical attention. If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Toxic if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person. Clean mouth with water
Skin Contact:	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

4.2. **Most important symptoms and effects, both acute and delayed**

	Gastrointestinal: ulceration or bleeding from large intestine; gastrointestinal: hypermotility, diarrhea Behavioral: somnolence (general depressed activity); behavioral: convulsions or effect on seizure threshold; behavioral: muscle contraction or spasticity Source: Toxicol., 23(731), 1985 [PMID:4089869]
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4.3. **Indication of any immediate medical attention and special treatment needed**

Note to physicians	No information available
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5. **Fire-fighting measures**

5.1. **Extinguishing media**

5.1.1. Suitable extinguishing media	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
5.1.2. Unsuitable extinguishing media	Water stream may be ineffective

5.2. **Other information**



Safety Data Sheet: Satratoxin H

5.2.1. <i>Hazardous combustion products</i>	<i>Carbon oxides</i>
5.2.2. <i>More information</i>	<i>None</i>
5.2.3. <i>Advice for firefighters</i>	<i>Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.</i>

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions	<i>Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Keep people away from and upwind of spill/leak.</i>
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6.2. Environmental precautions

Environmental precautions	<i>Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.</i>
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6.3. Methods and material for containment and cleaning up

Methods for containment:	<i>Prevent further leakage or spillage if safe to do so. Cover powder spill with 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 powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.</i>

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:	<i>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.</i>
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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	<i>Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C. Some other manufacturers may advice storing temperature 2-8 °C.</i>
Suitable packaging	
Incompatible materials:	<i>None known based on information available.</i>

8. Exposure Controls/Personal Protection



Safety Data Sheet: Satratoxin H

8.1. Control parameters

Control parameters	No occupational exposure limits are listed for this material.
OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
8.1.1. ACGIH Threshold Limit Values	No Data Available

8.2. Exposure controls

8.2.1. Appropriate engineering controls	stems g. y after handling the product.
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8.3. Personal protective equipment

[PPE=Personal Protection Equipment]

8.3.1. PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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).
8.3.2. 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
8.3.3. 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)
8.3.4. 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 must 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 / powder
Color	Off White powder

No further safety relevant data are available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.



Safety Data Sheet: Satratoxin H

Conditions to avoid	Heat, flames, and sparks. Sunlight.
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Carbon oxides.
Solubility	Practically insoluble in water. Soluble in lower alcohols

11. Toxicological information

11.1. Information on toxicological effects

***The toxicological effects of this product have not been thoroughly studied.
No quantitative data regarding toxicity-by-ingestion or inhalation or dermal contact are available.
Some authors consider this compound to be more toxic than the T-2 toxin.***

11.1.1. Acute Toxicity	LD50 Mouse, Intraperitoneal: 1.4 mg/kg
11.1.2. Information on likely routes of exposure	
Inhalation	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11.1.3. CMR hazards (Carcinogenic, mutagenic, reprotoxic)	
Mutagenicity	Sex chromosome loss and nondisjunction reported in <i>Drosophila melanogaster</i> at 250 mg/kg / 24 H.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
Reproductive toxicity / Teratogenicity:	No data available
STOT-SE – single exposure (GHS):	No data available
STOT-SE – repeated exposure (GHS):	No data available
Aspiration hazard:	No data available



Safety Data Sheet: Satratoxin H

11.2. Additional information

11.2.1. Symptoms	Behavioral - somnolence (general depressed activity) Behavioral - convulsions or effect on seizure threshold Behavioral - muscle contraction or spasticity
11.2.2. RTECS number	VQ5950000

12. Ecological Information

Persistence and degradability	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

Waste from residues / unused products	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	IATA	IMDG	ADR/RID
UN Number UN proper shipping name	Not hazardous for transportation (Satratoxin H)	Not hazardous for transportation (Satratoxin H)	Not hazardous for transportation (Satratoxin H)	Not hazardous for transportation (Satratoxin H)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

15. Regulatory information

15.1. Product-specific safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
California proposit. 65	This product is not listed on California proposit. 65 as on Jan 3, 2020
EU ECHA Status	This product is not registered with the EU ECHA, Number Not listed REACH: Not listed; ANNEX III: Not Listed as at November 2022
Canada	This product is not listed on the Canadian DSL/NDSL



Safety Data Sheet: Satratoxin H

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 process, unless specified in the text.*

16.3. The users'/employers' responsibility:

- *A risk assessment should be performed by the employer/user prior to 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. Comments:

16.5. Copyright statement



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This sort of document is but a compendium of common knowledge, published facts, and even the writing style is standard.

16.6. Abbreviations and acronyms:

- *Acute Tox.: Acute toxicity*
- *CAS: Chemical Abstracts Service (division of the American Chemical Society)*
- *DOT: US Department of Transportation*
- *EINECS: European Inventory of Existing Commercial Chemical Substances*
- *Eye Dam.: Serious eye damage/eye irritation*
- *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*
- *NFPA: National Fire Protection Association (USA)*
- *NIOSH: National Institute for Occupational Safety*
- *OSHA: Occupational Safety & Health*
- *PBT: Persistent, Bioaccumulative and Toxic*



Safety Data Sheet: Satratoxin H

- *PEL: Permissible Exposure Limit*
- *REL: Recommended Exposure Limit*
- *Repr.: Reproductive toxicity*
- *Skin Irrit: Skin corrosion/irritation*
- *STOT RE: Specific target organ toxicity (repeated exposure)*
- *TLV: Threshold Limit Value*
- *vPvB: very Persistent and very Bioaccumulative*

16.7. End of SDS



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Safety Data Sheet: Satratoxin H