

Safety Data Sheet: Sterigmatocystin

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

Product identifiers			
Product name	<i>Sterigmatocystin</i>	CAS #	10048-13-2
Product Code	STR	EC Number	233-158-6
Substance?mixture?	Substance	Formula	C₁₈H₁₂O₆
RTECS	LV1750000	MW	324.28
Intended uses of the substance or mixture and uses advised against			
Intended use		Uses advised against:	
Research and/or Development For manufacturing of substances Laboratory reagent		Not for drug, Not to be used in humans or animals. Not food additive	
Details of the supplier of the safety data sheet		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	
This company is the manufacturer of the product, and the supplier of the safety data sheet			
REACH		Listed in annex III. Preregistration process. To our opinion, this substance, or its uses are exempted from registration, the annual tonnage does not require a registration	

Section 2. Hazards identification

Classification of the Substance

Classification according to Regulation (EC) No 1272/2008	Cate-gory	H-code	H-text
Acute Toxicity, Oral	3	H301	Toxic if swallowed
Carcinogenicity	2	H351	Suspected of causing cancer

GHS Label elements including hazard and precautionary statements

Labelling according Regulation (EC) No 1272/2008

Pictogram:



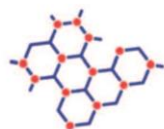
Signal word: **{DANGER}**

Hazard statements

H301	Toxic if swallowed
H351	Suspected of causing cancer

Precautionary statements

P201	Obtain special instructions before use.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.



Section 3. Composition/information on ingredients

Substance	
Substance name:	<i>Sterigmatocystin</i>
CAS Registry	10048-13-2
Synonyms	<i>(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-furo[3',2':4,5]furo[2,3- c]xanthen-7-one</i>
EC number#:	233-158-6
Molecular Formula:	C18H12O6
Molecular Weight:	324.28
Classification	Acute Tox. 3; Carc. 2; H301, H351
Concentration (weight/weight)	>98%
Mixture or substance	Substance.

Section 4. First Aid Measures

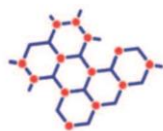
4.1 Description of First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor.
Eye contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water. Take victim immediately to hospital.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
4.2 Symptoms and effects:	No information is available
4.3 Note to physicians:	No information is available

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No information is available
Hazardous combustion products	Carbon oxides.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.



Section 6. Accidental release measures

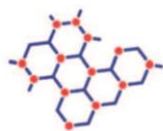
Personal precautions, protective equipment and emergency procedures	
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing vapours, mist or gas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for containment and cleaning up	
Methods for containment:	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.
Methods for cleaning up:	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.

Section 7. Handling and storage

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.
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.
Incompatible materials:	None known based on information available.

Section 8. Exposure Controls/Personal Protection

Exposure controls	No occupational exposure limits are listed for this material.
OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available
Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems General industrial hygiene practice.
Personal protective equipment	
Eye/face protection	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).
Skin 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.
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.



Section 9. Physical and chemical properties

Physical State at room temperature	Solid / powder
Color	white
Volatile?	No
No further safety-relevant information is available	

Section 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 oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon oxides

Section 11. Toxicological information

Information on toxicological effects

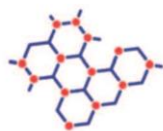
The toxicological effects of this product have not been thoroughly studied

Acute Toxicity

LD50 (oral - rat)	120 mg/kg Remarks: Liver:Hepatitis (hepatocellular necrosis), diffuse. Liver:Fatty liver degeneration. Kidney, Ureter, Bladder:Changes primarily in glomeruli.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	Evident, based on <i>nin vivo</i> and <i>in vitro</i> (cell culture) experiments.
Carcinogenicity:	Carcinogenic effects predicted <i>in silico</i> This compound has been designated by the IARC as Group 2B: Possibly carcinogenic to humans.
Reproductive toxicity / Teratogenicity:	No data available
STOT-SE – single exposure (GHS):	No data available
STOT-RE – repeated exposure (GHS):	No data available
Aspiration hazard:	No data available

Potential Health Effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation
Skin	May be harmful if absorbed through skin. May cause skin irritation
Eyes:	May cause eye irritation
Ingestion	Toxic if swallowed
Signs and Symptoms of Exposure	No information available.
Additional information:	RTECS: LV1750000



Section 12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

Section 14. Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
UN Number UN proper shipping name	ADR/RID: 3462 TOXINS EXTRACTED FROM LIVING SOURCES, SOLID	ADR/RID: 3462 TOXINS EXTRACTED FROM LIVING SOURCES, SOLID	ADR/RID: 3462 TOXINS EXTRACTED FROM LIVING SOURCES, SOLID	ADR/RID: 3462 TOXINS EXTRACTED FROM LIVING SOURCES, SOLID
Transport Hazard Class & Packing Group	Class: 6.1 PG : III	Class: 6.1 PG : III	Class: 6.1 PG : III	Class: 6.1 PG : III

Section 15. Regulatory information

Safety, health and environmental regulations/legislation	
USA EPA / TSCA	This product is listed on the USA EPA TSCA EPA identifier: E966226
EU ECHA Status	This product is registered with the EU ECHA Annex III: Listed. Predicted as likely to meet criteria for category 1A or 1B carcinogenicity, mutagenicity, or reproductive toxicity. Reach: preregistrated substance.
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL
Chemical safety assessment	For this product a chemical safety assessment was not carried out

Section 16. Other information

Date of revision: Tuesday, 11 February, 2020

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.

End of SDS

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