



Safety  
Data Sheet

# Sterigmatocystin

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SDS Sterigmatocystin vers 8-2024

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## 1. Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

|                             |                                      |                         |                             |
|-----------------------------|--------------------------------------|-------------------------|-----------------------------|
| Product name                | - <a href="#">Sterigmatocystin</a> - | Formula                 | $C_{18}H_{12}O_6$           |
| Product Code                | -STR-001                             | Molecular weight        | 324.28 g/mol                |
| CAS                         | 10048-13-2                           | Mixture?                | Substance                   |
| <a href="#">ECHA</a>        | <a href="#">233-158-6</a>            | <a href="#">PUBCHEM</a> | <a href="#">5280389</a>     |
| <a href="#">HSDB</a>        | HSDB3540                             | <a href="#">RTECS</a>   | LV1750000                   |
|                             |                                      | <a href="#">T3DB</a>    | <a href="#">T3D3663</a>     |
| <a href="#">Comptox EPA</a> | <a href="#">2021280</a>              | <a href="#">CHEBI</a>   | <a href="#">CHEBI:18227</a> |

|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| Synonyms and other names | 7H-Furo(3',2':4,5)furo(2,3-c)xanthen-7-one, 3a,12c-dihydro-8-hydroxy-6-methoxy- |
|--------------------------|---------------------------------------------------------------------------------|

|        |                                     |           |                  |
|--------|-------------------------------------|-----------|------------------|
| Source | From: <i>Aspergillus versicolor</i> | Vers Date | 20 October, 2024 |
|--------|-------------------------------------|-----------|------------------|

Intended uses of the Substance and uses advised against

| 1.2. Intended use:        |                                  | Uses advised against:                |
|---------------------------|----------------------------------|--------------------------------------|
| Research and development. | Manufacturing of substances.     | Not a drug,                          |
| Laboratory reagent.       | To be used by professionals only | Not a food additive                  |
| Reference material.       |                                  | Not to be used in humans or animals. |

### 1.3. Contacts

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

|                                                                                  |                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FERMENTEK ltd</b><br>4 Yatziv street, POB 47120<br>Jerusalem 97800,<br>Israel | Tel: +972 2 5853953<br>Fax: +972 2 5853943<br>eMail: <a href="mailto:Fermentek@Fermentek.com">Fermentek@Fermentek.com</a><br><a href="mailto:Safety@Fermentek.com">Safety@Fermentek.com</a><br>Website: <a href="http://Fermentek.com">Fermentek.com</a> |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*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





## 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)

|                 |            |      |                                        |
|-----------------|------------|------|----------------------------------------|
| Carcinogenicity | Category 2 | H351 | Group 2B – Suspected of causing cancer |
|-----------------|------------|------|----------------------------------------|

### 2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: {  } Signal word: { None }

#### 2.2.2. Hazard Statements

|      |                                        |
|------|----------------------------------------|
| H351 | Group 2B – Suspected of causing cancer |
|------|----------------------------------------|

#### 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:

|      |                                              |
|------|----------------------------------------------|
| P318 | If exposed or concerned, get medical advice. |
|------|----------------------------------------------|

## 3. Composition/information on ingredients

### Substance

|                 |                  |
|-----------------|------------------|
| Substance Name: | Sterigmatocystin |
|-----------------|------------------|

|               |        |
|---------------|--------|
| Concentration | <=100% |
|---------------|--------|

|                |            |
|----------------|------------|
| CAS Registry#: | 10048-13-2 |
|----------------|------------|

|      |           |
|------|-----------|
| EC#: | 233-158-6 |
|------|-----------|

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Molecular Formula: | <i>C<sub>18</sub>H<sub>12</sub>O<sub>6</sub></i> |
|--------------------|--------------------------------------------------|

|                   |              |
|-------------------|--------------|
| Molecular Weight: | 324.28 g/mol |
|-------------------|--------------|

|                |              |
|----------------|--------------|
| Classification | Carc 2(H351) |
|----------------|--------------|

|          |           |
|----------|-----------|
| Mixture? | Substance |
|----------|-----------|

## 4. First Aid Measures.

### 4.1. Description of First Aid Measures.

|                 |                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| General advice: | First-aiders need to protect themselves.<br>If medical attention is required, show this safety data sheet to the doctor in attendance. |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|





|            |                                                                                           |
|------------|-------------------------------------------------------------------------------------------|
| Ingestion: | If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. |
|------------|-------------------------------------------------------------------------------------------|

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

|                  |                                |
|------------------|--------------------------------|
| General symptoms | <a href="#">See section 11</a> |
|------------------|--------------------------------|

## 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,<br>Nitrogen oxides,<br>Sulfur oxides, Sulfur hydrogen<br>$C_{18}H_{12}O_6$ |
|-------------------------------|-------------------------------------------------------------------------------------------|

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Advice for firefighters | Wear self-contained breathing apparatus for fire fighting if necessary.<br>Wear protective suit. |
|-------------------------|--------------------------------------------------------------------------------------------------|

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| Personal precautions | Use personal protective equipment as required. Keep people away from and upwind of spill/leak. |
|----------------------|------------------------------------------------------------------------------------------------|

### 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. |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                          |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Keep out of the reach of children.<br>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

### Attention:

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 |
|--------------------|----------------------------------------------|

### 8.2. Exposure controls

|                                  |                                                                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | Showers, Eyewash stations, Ventilation systems<br>Avoid contact with skin, eyes, and clothing.<br>Wash hands before breaks and immediately after handling the product.<br>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 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                                    | Yellow to slight yellow 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 oxidizers      |
| 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

|                                              |                             |
|----------------------------------------------|-----------------------------|
| Acute toxicity:                              | Oral, Mouse, LD50>800 mg/kg |
| Skin corrosion/irritation:                   | No data available           |
| Serious eye damage/eye irritation:           | No data available           |
| Respiratory or skin sensitization/corrosion: | No data available           |

#### 11.1.2. Chronic toxicity

|                  |                   |
|------------------|-------------------|
| Chronic toxicity | No data available |
|------------------|-------------------|

#### 11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

|                                         |                                                                                                                                                                                                                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Germ cell mutagenicity:                 | No data available                                                                                                                                                                                                                                                           |
| Carcinogenicity:                        | This product has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies<br>Carcinogenic by RTECS criteria<br>Tumors develop in the liver and at the site of the application. |
| Reproductive toxicity / Teratogenicity: | No data available                                                                                                                                                                                                                                                           |

### 11.2. Additional information

|                  |                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| RTECS number     | LV1750000                                                                                                                                       |
| General symptoms | Symptoms:<br><b>Liver</b> hepatitis (hepatocellular necrosis), diffuse fatty liver degeneration<br><b>Kidney</b> changes primarily in glomeruli |

## 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                    |





## 14. Transport information

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

|                                             | IATA                                                  | IMDG                                                  | ADR/RID                                               | US/DOT                                                |
|---------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| UN Number,<br>Proper<br>shipment name       | Not classified<br>Not regulated<br>(Sterigmatocystin) | Not classified<br>Not regulated<br>(Sterigmatocystin) | Not classified<br>Not regulated<br>(Sterigmatocystin) | Not classified<br>Not regulated<br>(Sterigmatocystin) |
| Transport<br>hazard Class,<br>Packing group | Not regulated<br>Not hazardous for<br>transport       | Not regulated<br>Not hazardous for<br>transport       | Not regulated<br>Not hazardous for<br>transport       | Not regulated<br>Not hazardous for<br>transport       |
| Comments                                    |                                                       | 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)                                                                         |
| EU ECHA Status | This product is registered with the EU ECHA, Number 233-158-6<br>REACH: ANNEX III (criteria for 1 - 10 tonne registered substances): Listed |

## 16. Other information

### 16.1. Version information

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| Version date:8-2024 | Recalculated toxicity levels based on new data source |
|---------------------|-------------------------------------------------------|

### 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.**

**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.**





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## 16.6. End of SDS







**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.                                                                                                                |
| <b>Synthetic / From</b>                                                           | <p><b>"Synthetic"</b> means this compound has been manufactured by chemical conversion of another product of ours.</p> <p><b>"From"</b> means the compound was extracted from biomass, whether algal, fungal, microbial or plant material</p>                     |
| <b>Mixture/Substance/Complex</b>                                                  | <p><b>Substance</b> means a single compound. ,</p> <p><b>Mixture</b> means there are two or more <b>pure substances</b> mixed purposely.</p> <p><b>Complex</b> is a mixture of two or more substances which naturally occur together and are sold unseparated</p> |
| 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                                                                                                                                                                                                                                               |
| LDLO                                                                              | Letal dose, least 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 yielded no results at toxicity 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                                                                                                                                                                                                                                   |
| TDLO                                                                              | Toxic dose, least published                                                                                                                                                                                                                                       |

