



# Trichostatin A

## Safety Data Sheet:

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## 1. Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

Product name	Trichostatin A	Formula	C <sub>17</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub>
Product Code	TRA	Molecular weight	158.11 g/mol
CAS#	58880-19-6	Mixture?	Substance
<a href="#">ECHA#</a>	611-758-2	<a href="#">PUBCHEM</a>	<a href="#">444732</a>
<a href="#">Comptox EPA</a>	<a href="#">6037063</a>	<a href="#">RTECS</a>	MI5215000
<a href="#">Drug bank#</a>	<a href="#">DB04297</a>	<a href="#">CHEBI</a>	<a href="#">46024</a>
Synonyms and other names	<ul style="list-style-type: none"> <li>Trichostatin A</li> </ul> <p>2,4-Heptadienamide, 7-(4-(dimethylamino)phenyl)-N-hydroxy-4,6-dimethyl-7-oxo-</p>		
Source	From: <i>Streptomyces platensis</i>	Vers Date	12 August, 2024

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

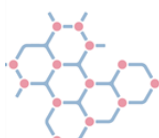
<b>1.2.1. Intended use:</b>	<b>1.2.2. Uses advised against:</b>
<p>Research and development. Laboratory reagent. Reference material. Manufacturing of substances. To be used by professionals only</p>	<p>Not a drug, Not a food additive Not to be used in humans or animals.</p>

### 1.3. Contacts

<b>1.3.1. Details of the supplier of the SDS</b>	
<p>FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel</p>	<p>Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: <a href="mailto:Fermentek@Fermentek.com">Fermentek@Fermentek.com</a> <a href="mailto:Safety@Fermentek.com">Safety@Fermentek.com</a> Website: <a href="http://Fermentek.com">Fermentek.com</a></p>

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

<b>1.3.2. Emergency Telephone number</b>
<p>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</p>





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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)

Acute toxicity, Oral	(Category 4)	H302	Harmful if swallowed
Acute toxicity, inhalation	(Category 4)	H332	Harmful if inhaled
Acute toxicity, dermal	(Category 4)	H312	Harmful if in contact with skin
Skin irritation	(Category 2)	H315	Causes skin irritation
EYE irritation	(Category 2A)	H319	Causes serious eye irritation
STOT SE / Respiratory system	(Category 3)	H335	May cause respiratory irritation
Reproductive toxicity	(Category 1A)	H360	May damage the unborn child

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

2.2.1. Pictogram: {   } Signal word: {Warning}

#### 2.2.2. Hazard Statements

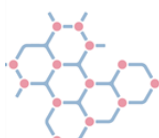
H302,H332,H312	Harmful if swallowed, unhalled or in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

#### 2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264+P265	Wash hands thoroughly after handling thoroughly after handling. Do not touch eyes.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
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:

P301+P317,	IF SWALLOWED: Get emergency medical help immediately.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P318	IF EXPOSED OR CONCERNED, get medical advice.
<del>P321</del>	
P302+P352	IF ON SKIN: wash with plenty of water
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.





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P317	
<del>P319</del>	
P330	Rinse mouth.
<del>P332+P317</del>	
P333+P317	If skin irritation or rash occurs: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P362+P364	If skin irritation occurs: Get medical help.

### 3. Composition/information on ingredients

Substance	
Substance Name:	Trichostatin A
Concentration	<=100%
CAS Registry#:	58880-19-6
EC#:	611-758-2
Molecular Formula:	$C_{17}H_{22}N_2O_3$
Molecular Weight:	158.11 g/mol
Classification	Acc O:4 (H302) Inh:4 , Der:4, repr:1A (H360)
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 immediately all contaminated clothing. Rinse skin with water/ shower.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
Inhalation:	If inhaled, move the person into fresh air.

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

General symptoms	<a href="#">See section 11</a>
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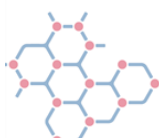
#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	No data available
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### 5. Fire-fighting measures.

#### 5.1. Extinguishing media.

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable extinguishing media

None known

## 5.2. Other information

Hazardous combustion products

Carbon oxides, Nitrogen oxides, Sulfur oxides, Sulfur dihydrogene,  
**Formula C<sub>17</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>**

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 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. 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

### 8.1. Control parameters

Control parameters

Components with workplace control parameters





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## 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 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

### 9.1. Physical/chemical properties

Physical State at room temperature

Solid

Appearance

Powder, White

No further safety relevant data are available

## 10. Stability and reactivity

Reactivity:

No information available.

Chemical stability:

Stable under normal conditions.

Conditions to avoid

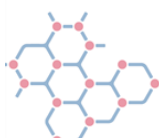
Heat, flames and sparks. Sunlight.

Incompatible materials

Strong reducers and oxidizers

Possibility of Hazardous Reactions

None under normal processing







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Hazardous combustion products	See section 5
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## 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:	No acute toxicity data available.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available

#### 11.1.2. Chronic toxicity

Chronic toxicity	No data available
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#### 11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	Mutagenesis in rodents, and human cell cultures has been reported.
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	Teratogenicity reported in rodents. at 2 to 16 mg/kg, 8 days after conception. Effects: Developmental Abnormalities in CNS, Developmental Abnormalities - musculoskeletal system.

## 11.2. Additional information

RTECS number	MI5215000
General symptoms	None reported

## 12. Ecological Information

Eco-Toxicity	No data available
Other adverse effects	No data available

## 13. Disposal Considerations

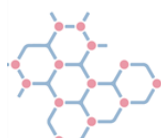
### 13.1. Waste treatment methods

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

UN Number	Not classifiable. Not hazardous for transport. (Trichostatin A)
UN proper shipping name	
Transport Hazard Class & Packing Group	Not classifiable. Not hazardous for transport. (Trichostatin A)





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## 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 611-758-2 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

## 16. Other information

### 16.1. Version information

Version date:	8-2024: Toxicity data revised accordint to current RTECS.
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### 16.2. Department issuing this SDS

Quality systems and regulatory affairs
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### 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, a risk assessment should be performed by the employer/user 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. Abbreviations and acronyms:

<i>Acute Tox.:</i>	<i>Acute toxicity</i>
<i>CAS:</i>	<i>Chemical Abstracts Service</i>
<i>Comptox</i>	<i>CompTox Chemicals Dashboard Resource Hub (EPA)</i>
<i>DOT:</i>	<i>US Department of Transportation</i>
<i>ECHA</i>	<i>European Chemicals Agency</i>
<i>EINECS:</i>	<i>European Inventory of Existing Commercial Chemical Substances</i>
<i>EPA</i>	<i>United States Environmental Protection Agency</i>
<i>Eye Dam.:</i>	<i>Serious eye damage/eye irritation</i>
<i>HSDB</i>	<i>Hazardous Substances Data Bank</i>
<i>HMIS:</i>	<i>Hazardous Materials Identification System (USA)</i>
<i>IATA:</i>	<i>International Air Transport Association</i>
<i>IMDG:</i>	<i>International Maritime Code for Dangerous Goods</i>
<i>LC50:</i>	<i>Lethal concentration, Median</i>
<i>LD50:</i>	<i>Lethal dose, Median</i>
<i>LDL0</i>	<i>Letal dose, least published</i>
<i>NDG</i>	<i>Not dangerous goods (for transport)</i>
<i>NFPA:</i>	<i>National Fire Protection Association USA</i>
<i>NIOSH:</i>	<i>National Institute for Occupational Safety</i>
<i>OSHA:</i>	<i>Occupational Safety &amp; Health</i>
<i>PBT:</i>	<i>Persistent, Bioaccumulative, and Toxic</i>
<i>PEL:</i>	<i>Permissible Exposure Limit</i>
<i>REL:</i>	<i>Recommended Exposure Limit</i>
<i>Repr.:</i>	<i>Reproductive toxicity</i>
<i>RTECS:</i>	<i>Registry of Toxic Effects of Chemical Substances</i>
<i>Skin Irrit:</i>	<i>Skin corrosion/irritation</i>
<i>STOT/SE</i>	<i>Specific target organ toxicity/Single exposure</i>
<i>STOT/RE</i>	<i>Specific target organ toxicity/Repeated exposure</i>
<i>T3DB</i>	<i>Toxin and Toxin Target Database</i>
<i>TDL0</i>	<i>Toxic dose, least published</i>

## 16.7. End of SDS

