Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Tentoxin (From Alternaria sp.)
CAS Number 28540-82-1

Catalog Code: **TE**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Research reagent. For research only

Company Identification
Fermentek ltd,
Website: [www.fermentek.co.il](http://www.fermentek.co.il)
4 Yatziv st, Atarot industrial zone
POB 47120 Jerusalem 97800, Israel
Tel: +972 2 585395
Fax: +972 2 5853943
eMail Fermentek@Fermentek.com

Section 2: Hazards identification

2.1. Classification of the substance or mixture
Classification under CLP:
This product has no classification under CLP.

2.2. Label elements
Label elements:
Precautionary statements: P261: Avoid breathing dust.
P280: Wear protective gloves/protective clothing/eye

2.3. Other hazards
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.
PBT: This product is not identified as a PBT/vPvB substance.
Label precautionary statements: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

HMIS rating: Health: 3; Flammability: 0; Reactivity: 0
NFPA rating: Health: 3; Flammability: 0; Reactivity: 0

Section 3. Composition/Information on Ingredients

3.1. Substances
Chemical identity: TENTOXIN FROM ALTERNARIA sp
CAS number: 28540-82-1
Chemical Formula: C22H30N4O4

Section 4. First Aid Measures

4.1. Description of first aid measures

Eye Contact
Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately.

Skin Contact
Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Inhalation
Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.

Ingestion
Remove dentures and clear mouth. If person is conscious, rinse mouth with water. Call physician or poison control immediately. Provide chemical label and MSDS information if possible.

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

Skin contact:
There may be mild irritation at the site of contact.

Eye contact:
There may be irritation and redness.
Ingestion:
There may be irritation of the throat.

Inhalation:
There may be irritation of the throat with a feeling of tightness in the chest.

Section 5. Fire and Explosion Data

5.1. Extinguishing media
Suitable extinguishing media for the surrounding fire should be used, such as Carbon Dioxide, Dry chemical powder, polymer foam, water spray

5.2. Special hazards arising from the substance or mixture
Exposure hazards: In combustion emits toxic fumes such as CO, CO2, NO, NO2,

5.3. Advice for fire-fighters
Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.
Unusual Fire/Explosion Hazards: None known
Combustion Products: CO, CO2, NO, NO2

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions
Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up
Clean-up procedures: Wash the spillage site with large amounts of water.

Section 7: Handling and storage

7.1. Precautions for safe handling
Handling requirements: Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage
Storage conditions: Store in a cool, well ventilated area. Recommended storage temp 2°C-8°C.
Suitable packaging: Must only be kept in original packaging

**Clean-up Procedures**
Evacuate area. Wear appropriate protective gear as outlined under “Protective equipment” wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed

**Waste Disposal Method**
Observe all Federal, State and Local regulations concerning the disposal of this product.
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete

**Protective Equipment**
For spill clean-up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self-contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.

**Storage and Handling**
It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material Do not store above 80°C

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**Section 8 - Exposure Controls / Personal protection**

**General**
Use in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low

**8.1. Control parameters**
Workplace exposure limits: No data available.
DNEL/PNEC Values
DNEL / PNEC No data available.

**Engineering measures:**
Ensure there is sufficient ventilation of the area

**8.2. Exposure controls**

**Personal protective equipment**
Respiratory: Government approved respirator.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.
Section 9. Physical and chemical data

9.1. Information on basic physical and chemical properties

Appearance
Solid; white to off-white powder

Molecular Weight
414.5

Melting
168-172 °C

Solubility
Ethanol (10 mg/ml), with heat as needed Water, Dichloromethane, DMSO

Section 10. Stability and Reactivity Data

10.1. Reactivity
This material is stable if stored as directed

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Hazardous polymerization: Will not occur

10.4. Conditions to avoid
Heat; incompatible materials, strong oxidizers

10.5. Incompatibles
Reactive with oxidizing agents, strong acids.

10.6. Hazardous decomposition products
Hazardous decomposition products: In combustion emits toxic fumes
Section 11 - Toxicological Information

11.1. Information on toxicological effects
Toxicity values: No data available

Route of exposure
Multiple Routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.

Symptoms
Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Conditions aggravated by exposure
The toxicological properties have not been thoroughly investigated.

Mutagenicity data
Shown non-mutagenic in bacterial tests; SCHRADER, T et all, TERATOG., CARCINOGR., MUTAGEN. 21(4):261-274, 2001]

Section 12 - Ecological Data

Ecotoxicological Information:

12.1 Ecotoxicity values
No data available

12.2. Persistence and degradability
Biodegradable

12.3 Bioaccumulative potential
No bioaccumulation potential

12.4. Mobility in soil
Mobility: No data available

12.5. Results of PBT and vPvB assessment
PBT identification: This product is not identified as a PBT/vPvB substance.
12.6. Other effects
Negligible Eco-toxicity

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation

Disposal operations:
Transfer to a suitable container and arrange for collection by specialised disposal company. MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Disposal of packaging:
Dispose of as special waste in compliance with local and national regulations. Observe all federal, state and local environmental regulations. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14 - Transport Information

US DOT
This substance is considered to be non-hazardous for transport.

IATA
This product is Non-hazardous for air transport.
Proper Shipping Name: None
This product does not require a classification for transport.

Section 15 - Regulatory Information

US classification and labelling
US Statements: Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

USA regulatory information
SARA: not listed
Section 16 -Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses. For use only by trained personnel.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The burden of safe use of this material rests entirely with the user. Fermentek shall not be held liable or any damage resulting from handling or from contact with the above product.