



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Tetracycline Hydrochloride

PRODUCT NUMBER: T859

COMPANY INFO: *PhytoTechnology Laboratories®*
PO Box 12205, Shawnee, KS 66282-2205
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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories®* are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

- H315 – Skin irritation (Category 2)
- H319 – Eye irritation (Category 2A)
- H335 – Specific target organ toxicity – single exposure (Category 3), Respiratory system.
- H361 – Reproductive toxicity (Category 2)
- H362 – Effects on or via lactation.

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: **Warning**

Hazard Statements:

- H315 – Causes skin irritation.
- H319 – Causes serious eye irritation.
- H335 – May cause respiratory irritation.
- H361 – Suspected of damaging the unborn child.
- H362 – May cause harm to breast-fed children.

Precautionary Statements:

- P202 – Do not handle until all safety precautions have been read and understood.
- P263 – Avoid contact during pregnancy/while nursing.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 – IF exposed or concerned: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: [4S-(4a,4a α ,5a α ,6 β ,12a α)]-4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide Hydrochloride

CAS No: 64-75-5

Formula: C₂₂H₂₄N₂O₈•HCl

Molecular Weight: 480.94

| Ingredient | CAS Number | Percent | Hazardous |
|----------------------------|------------|------------|---|
| Tetracycline Hydrochloride | 64-75-5 | >900 µg/mg | No exposure limits established by OSHA or ACGIH |

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

| Route of Entry | Symptoms | First Aid Procedures |
|----------------|---|--|
| Ingestion | May cause irritation if swallowed | If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. |
| Inhalation | May cause irritation to respiratory tract | Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention. |
| Eye Contact | Direct contact may cause irritation. May cause redness, tearing, or blurred vision. | Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. |
| Skin Contact | Irritating. May cause reddening, itching or inflammation. | Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists. |

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| Suitable Extinguishing Media: | Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire. |
| Special Protective Equipment and Precaution for Firefighters: | In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance. |
| Hazardous Combustion Products: | May emit toxic fumes under fire conditions. |
| Toxic Gases Produced: | Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas |

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

| | |
|------------------------------------|---|
| Environmental Precautions: | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Method of Containment and Cleanup: | Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains. |

7. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precaution for Safe Handling: | Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Do not breathe dust. Wash thoroughly after use. |
| Conditions for Safe Storage: | Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Avoid direct light. |

Recommended Storage Temperature: -20 to 0 °C

Incompatibilities: Strong oxidizing agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Wear appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow Powder

pH: Under Development

Solubility: Soluble in Water

Melting Range: 214 °C

Vapor Density: No data available

Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available

Viscosity: No data available

Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient: No data available
n-octanol/water):

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use – May discolor on exposure to light.

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Dust generation, moisture, may be light sensitive

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

| | | |
|--|--|---|
| Toxicity: | LD ₅₀ (Oral-Rat)(mg/Kg): | 6443 |
| | LD ₅₀ (IV-Rat)(mg/Kg): | 128 |
| | LD ₅₀ (Oral-Mouse)(mg/Kg): | 2759 |
| Carcinogenicity: | NTP: | No |
| | IARC: | No |
| | Z List: | No |
| | OSHA Reg: | No |
| Respiratory or skin sensitization: | May cause allergic reactions in certain sensitive individuals. | |
| Reproductive Toxicity: | Suspected human reproductive toxicant – Effects on or via lactation. | |
| Symptoms Associated with Overexposure: | Phototoxic reactions, Gastrointestinal disturbance, yellowing of teeth, reduced mineralization | |
| Specific Target Organ Toxicity: | Single Exposure: | Inhalation – may cause respiratory irritation |
| | Repeated Exposure: | No data available |
| Target Organs: | Liver, respiratory system, reproductive system | |
| Medical Conditions Aggravated By Exposure: | Pre-existing conditions | |
| Routes of Entry: | Ingestion, inhalation, skin and eye contact | |
| NIOSH/RTECS NO: | QI9100000 | |

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------|---|
| Ecotoxicity: | Toxicity to fish – LC50 – <i>Salvelinus namaycush</i> - 200 mg/mL – 96 hrs. |
| Persistence and Degradability: | No data available |
| Bioaccumulative Potential: | No data available |
| Mobility in Soil: | No data available |
| Other Adverse Effects: | No data available |

13. DISPOSAL CONSIDERATION

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|-----------------------------|--|
| Disposal Procedure: | Dispose in accordance with all applicable federal, state, and local environmental regulations. |
| EPA Hazardous Waste Number: | No data available |

14. TRANSPORT INFORMATION

| | | |
|--------------------|-----------------------|-----------------------------------|
| Domestic (D.O.T.): | Proper Shipping Name: | CHEMICALS, N.O.S. (NON-REGULATED) |
| | Hazard Class: | N/A |
| | UN/NA: | N/A |
| | Labels: | N/A |
| International: | | |
| IMDG: | Proper Shipping Name: | CHEMICALS, N.O.S. (NON-REGULATED) |
| | Hazard Class: | N/A |
| | UN/NA: | N/A |
| | Labels: | N/A |

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: Yes
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard ☐

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 64-75-5 Tetracycline hydrochloride

New Jersey Right to Know Components: CAS No.: 64-75-5 Tetracycline hydrochloride

California Prop. 65 Components: CAS No.: 64-75-5 Tetracycline hydrochloride
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

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|--------------|---------------|-----------------------|-------------------|-----------------|
| HMIS Rating: | Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
| | 3 | * | 0 | 1 |
| NFPA Rating: | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
| | 3 | 0 | 1 | |

*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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