# Material Safety Data Sheet

## SECTION 1 - SUBSTANCE IDENTITY AND COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Tetracycline Hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATCC Catalog #:</td>
<td>60-2002</td>
</tr>
</tbody>
</table>

**COMPANY INFORMATION:** AMERICAN TYPE CULTURE COLLECTION  
PO BOX 1549  
MANASSAS, VA 20108  
FOR INFORMATION CALL: 800-638-6597 or 703-365-2700  
AFTER-HOURS CONTACT: 703-365-2710  
CHEMTREC EMERGENCY: 800-424-9300 or 703-527-3887

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## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Tetracycline Hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #:</td>
<td>90438-83-8</td>
</tr>
<tr>
<td>Chemical Formula:</td>
<td>C&lt;sub&gt;22&lt;/sub&gt;H&lt;sub&gt;25&lt;/sub&gt;ClN&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;8&lt;/sub&gt;</td>
</tr>
</tbody>
</table>

This product is for laboratory research and development use only. Not for clinical or household use. Not for use on Human Subjects.

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## SECTION 3 - HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards**
Target Organ Effect, Irritant

**Target Organs**
Liver, Teeth., Bone

**GHS Label elements, including precautionary statements**
- **Signal word** Warning
- **Hazard statement(s)**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.
- **Precautionary statement(s)**
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P264 Wash skin thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/eye protection/face protection.
  - P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
  - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant

**Emergency Overview:**
No Known OSHA Hazards for any ingredient.

**HMIS Classification**
- Health hazard: 3
- Chronic Health Hazard: *
- Flammability: 0
- Physical hazards: 1

**NFPA Rating**
- Health hazard: 3
- Fire: 0
- Reactivity Hazard: 1

**Potential Health Effects**
- **Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
- **Skin:** May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes:** Causes eye irritation.
- **Ingestion:** May be harmful if swallowed.

**SECTION 4 - FIRST AID MEASURES**

**Oral Exposure:** If swallowed, rinse out mouth with water provided person is conscious. If vomiting occurs naturally, turn victim on side. Call a physician. Be prepared to induce vomiting upon a physician’s advice.

**Dermal Exposure:** In case of contact with skin, flush with copious amounts of water for at least 15 minutes. Remove and wash contaminated clothing and shoes. Call a physician.

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Remove and clean contact lenses. Call a physician.

**Inhalation:** If inhaled, remove to fresh air. Call a physician.

**Notes to Physician:** Treat symptomatically and supportively.
SECTION 5 - FIRE FIGHTING MEASURES

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

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for firefighting.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20 °C
Keep in a dry place.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses with side-shields conforming to EN166

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: powder

Safety data
pH: no data available
Melting point: 220 - 223 °C (428 - 433 °F)
Boiling point: no data available
Flash point: no data available
Ignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Water solubility: no data available

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability
May discolor on exposure to light. Stable under recommended storage conditions.

Conditions to avoid
No data available

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 6,443 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is probably not carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or
anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**
no data available

**Specific target organ toxicity - single exposure (GHS)**
Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (GHS)**
no data available

**Aspiration hazard**
no data available

**Potential health effects**
- **Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.
- **Ingestion** May be harmful if swallowed.
- **Skin** May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes** Causes eye irritation.

**Signs and Symptoms of Exposure**
Phototoxic reactions, Gastrointestinal disturbance, yellowing of teeth, reduced mineralization

**Additional Information**
RTECS: QI9100000

### SECTION 12 - ECOLOGICAL INFORMATION

**Toxicity**
Toxicity to fish LC50 - Salvelinus namaycush - 220 mg/l - 96 h

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
No data available

### SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous waste generators are required to determine if a discarded chemical is classified as a hazardous waste according to 40 CFR Part 261.3. In addition waste generators must consult about and comply with all state and local regulations to ensure compliance.
SECTION 14 - TRANSPORT INFORMATION

Considered non-hazardous for transport according to US DOT, Canadian TDG or IATA.

SECTION 15 - REGULATORY INFORMATION

OSHA Hazards
Target Organ Effect, Irritant

DSL Status
All components of this product are on the Canadian DSL list.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
Tetracycline hydrochloride CAS-No. 64-75-5 Revision Date: 2007-07-01

SARA 311/312 Hazards
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
Tetracycline hydrochloride CAS-No. 64-75-5 Revision Date: 2007-07-01

New Jersey Right To Know Components
Tetracycline hydrochloride CAS-No. 64-75-5 Revision Date: 2007-07-01

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Tetracycline hydrochloride CAS-No. 64-75-5 Revision Date: 1991-01-01

SECTION 16 - OTHER INFORMATION

THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE TO ATCC. USERS SHOULD MAKE AN INDEPENDENT DECISION REGARDING THE ACCURACY OF THIS INFORMATION BASED ON THEIR NEEDS AND DATA AVAILABLE TO THEM. ALL SUBSTANCES AND MIXTURES MAY PRESENT UNKNOWN HAZARDS AND ALL NECESSARY SAFETY PRECAUTIONS SHOULD BE TAKEN. ATCC ASSUMES NO LIABILITY RESULTING FROM USING OR COMING IN CONTACT WITH THIS SUBSTANCE.