



MATERIAL SAFETY DATA SHEET

1. Identification of the substance and the company

Product Name: Tetracycline Hydrochloride

Contact Information:

Company: Aurora Industry Co.,Ltd.

Address: Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

Tel: 0411-82288674

2. Composition/information on ingredients

Formula: $C_{22}H_{24}N_2O_8 \cdot HCl$

Formula: Weight: 480.9 Content: 100.0% (Tetracycline hydrochloride)

CAS No.: 64-75-5

EINECS No.: 200-593-8

3. Hazards Identification

Risk Phrases: Irritating to eyes, respiratory system and skin. Possible risk of harm to the unborn child. May cause harm to breastfed infants.

Adverse Human Health Effects: Exposure may produce an allergic reaction. This material may induce blood disorders and /or aggravate pre-existing blood disorders. Gastrointestinal disorders.

4. First aid measures

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

Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a Physician.

Eyes Contact: Rinse thoroughly with plenty of water for at least 15 min and consult a physician.

Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting measures

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 fire-fighters if necessary.



6. Accidental release measures

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Switch off sources of ignition and intense heat. Collect residues manually, remove by wiping with a disposable tissue moistened with water until residues have been removed, place in a bag and hold for waste disposal. Avoid raising dust or mist. Ventilate area and wash spill site with water after material pick up is complete, Keep away from drains, surface and ground water and soil.

7. Handling and storage

Handling: Handle small quantities in fume hood. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Protected from light. If the substance is sterile, store in a sterile tamper-proof container.

8. Exposure controls/personal protection

Respiratory Protection: Wear approved mask. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Wear protective chemical safety goggles.

Skin and Body Protection: Choose body protection according to the amount 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.

9. Physical and chemical properties

Appearance: Yellow. crystalline powder.

Solubility: Soluble in water, slightly soluble in ethanol (96 per cent), practically insoluble in acetone. It dissolves in solutions of alkali hydroxides and carbonates. Solutions in water become turbid on standing, owing to the precipitation of tetracycline.DH:

1.8~2.8Melting Point: 220 ~223 °C

10. Stability and reactivity

Stability and Reactivity: Stable under normal conditions. Conditions to Avoid: Moisture. Sources of ignition. Heat. Direct sunlight. Air.

Materials to Avoid: Strong oxidizers.

Hazardous Decomposition Products: When heated to decomposition, emits



dangerous fumes. Carbon monoxide. Hydrochloric acid. Nitrogen oxides. Carbon dioxide.

Hazardous Reactions: None under normal conditions.

Hazardous Polymerisation: Will not occur.

11. Toxicological information

RTECS nr: OI 9100000

Rat Oral LD50: 6443 mg/kg

Rabbit Dermal LD50: No data available.

Rat Dermal LD50: No data available.

Acute Toxicity: This material may induce blood disorders and/or aggravate pre-existing blood disorders. Gastrointestinal disorders. Exposure may produce an allergic reaction.

Chronic Toxicity: No data available.

Sensitization: No data available.

Toxic for Reproduction: Category 3: Substances which cause concern for humans owing to possible developmental toxic effects.

12. Ecological information

LC50-96 Hour-Fish: 220 mg/L

EC50-48 Hour-Daphnia magna: No data available.

LC50-72 Hour-Algae: No data available.

Persistence-Degradability: Potentially biodegradable. Log P Octano/Water at 20°C: No data available.

Bioaccumulative Potential: No data available.

13. Disposal considerations

Product: Observe all federal, state, and local environmental regulations.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

15. Regulatory information

Symbol(s): Xn: Harmful

R Phrase(s): R36/37/38: Irritating to eyes, respiratory system and skin.

R63: Possible risk of harm to the unborn child.

R64: May cause harm to breastfed babies.



S Phrase(s): S36/37: Wear suitable protective clothing, and gloves.

S53: Avoid exposure -obtain special instructions before use.

Toxic for Reproduction: unborn child: Category 3: Substances which cause concern for humans owing to possible developmental toxic effects.

16. Other information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.