

# Changzhou pharmaceutical factory

Add: NO.518 Laodong East Road, Changzhou, Jiangsu, 213018 China  
Tel: 0086 519 88821493, 88813251-8209 Fax: 0086 519 88828412, 88256855  
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## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Doxycycline hyclate

**Synonyms:** Doxycycline hydrochloride hemiethanolate hemihydrate; Biocaymycin; Doxigalmunicina.

**Company Identification:** Changzhou pharmaceutical factory

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### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
24390-14-5	Doxycycline hyclate	100	unlisted

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: yellow crystalline powder.

**Warning!** Individuals with allergies or hypersensitivity to antibiotics should take caution.

Causes eye, skin, and respiratory tract irritation. Harmful if swallowed. May cause adverse reproductive effects based upon animal studies.

**Target Organs:** Central nervous system, respiratory system, teeth, eyes, skin.

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system effects.

**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.

**Chronic:** Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

May cause adverse reproductive effects. Repeated or prolonged exposure may cause erosion and discoloration of the teeth. Avoid if hypersensitive to any of the tetracyclines.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

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## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 1

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store at 15-30°C.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations

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low.

## Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Doxycycline hyclate	none listed	none listed	none listed

**OSHA Vacated PELs:** Doxycycline hyclate: No OSHA Vacated PELs are listed for this chemical.

## Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Appearance:** yellow

**Odor:** Not available.

**pH:** 2.0 - 3.0

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:** Not available.

**Molecular Formula:** C<sub>23</sub>H<sub>29</sub>N<sub>2</sub>O<sub>9</sub>Cl

**Molecular Weight:** 512.94

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions. May decompose when exposed to light.

**Conditions to Avoid:** Incompatible materials, dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, oxides of nitrogen, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

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## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 24390-14-5 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

**CAS#** 24390-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** No information found

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

**Other Studies:**

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	Not Regulated	Not Regulated
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**

**CAS#** 24390-14-5 is not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

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None of the chemicals in this material have an RQ.

## **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

## **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

## **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

## **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

## **STATE**

CAS# 24390-14-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

## **California Prop 65**

WARNING: This product contains Doxycycline hyclate, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

## **US DOT Canada TDG**

**Shipping Name:** Not Regulated Not Regulated

**Hazard Class:**

**UN Number:**

**Packing Group:**

## **European/International Regulations**

### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

XN

#### **Risk Phrases:**

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

#### **Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

#### **WGK (Water Danger/Protection)**

CAS# 24390-14-5: No information available.

#### **Canada - DSL/NDSL**

CAS# 24390-14-5 is listed on Canada's DSL List.

#### **Canada - WHMIS**

This product has a WHMIS classification of D1B, D2B, D2A.

This product has been classified in accordance with the hazard criteria of the Controlled

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## Products

Regulations and the MSDS contains all of the information required by those regulations.

## Canadian Ingredient Disclosure List

### Section 16 - Additional Information

**MSDS Creation Date:** 1/22/2007

**Revision #1 Date:** 1/22/2007

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