

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Achromycin hydrochloride Synonyms: Tetracycline hydrochloride

Company Identification: PI Chemicals Ltd.

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Section 2 - Product Information

Catalog Number: PI-12974
CAS Number: 64-75-5
EINECS Number: 200-593-8

MDL Number: MFCD00078142

Purity: 95.0% to 100.5%(on dry)

Section 3 - Physical and Chemical Properties

Physical state: Crystalline powder

Color: Yellow

Odor: Not available Molecular Formula: C₂₂H₂₄N₂O₈.HCl

Molecular Weight: 480.9

Freezing/Melting Point: 220-223 °C(lit.)

Boiling Point: Not available

Flash Point: Not available

Autoignition Temperature: Not available

Refractive Index (nD20): -253 ° (C=0.5, 0.1mol/L HCl)

Density: Not available **Decomposition Temperature:** Not available

Solubility: H₂O: 10 mg/mL as a stock solution. Stock solutions should be filtered

sterilized and stored at -20°C. Stable at 37°C for 4 days.

Section 4 - Hazards Identification

Eye: Causes eye irritation.



Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May be harmful if swallowed.

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

Section 5 - First Aid Measures

Eye: 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 and soap for at least 15 minutes while

removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Get medical aid immediately. Wash mouth out with 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.

Section 6 - Stability and Reactivity

Chemical Stability: Air sensitive. Sensitive to light. May discolor on exposure to air and light.

Hygroscopic: absorbs moisture or water from the air.

Materials to avoid: Strong oxidizing agents.

Conditions to avoid: Incompatible materials, light, exposure to air, exposure to moist air or water.

Hazardous Decomposition

Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

Polymerization: Will not occur.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid

ingestion and inhalation. Use only in a chemical fume hood. Store and handle

protected from air.

Storage: Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed

container. Keep under an argon blanket.

Section 8 - Personal Protection

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: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Fire and Explosion Hazard Data



General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH

(approved or equivalent) and protective clothing to prevent contact with skin

and eyes.

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

Section 10 - Accidental Release Measures

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS# 64-75-5: QI9100000

RTECS:

LD50/LC50: CAS# 64-75-5: Oral, mouse: LD50 = 2759 mg/kg;

Oral, rat: LD50 = 6443 mg/kg;

Carcinogenicity:

Achromycin hydrochloride- Not listed as a carcinogen by ACGIH, IARC,

NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

Section 12 - Environmental information

Not available.

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

ADR/RID: Not a dangerous good.

IMDG: Not a dangerous good.

IATA: Not a dangerous good.

Section 15 - Regulatory Information

European Labeling in Accordance with EC Directives

Hazard Symbols: Xn

Risk Phrases:



R 36 Irritating to eyes.

R 63 Possible risk of harm to the unborn child.

Safety Phrases:

S26 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# 64-75-5: 2

Canada

CAS# 64-75-5 is listed on Canada's DSL List.

US Federal

TSCA

CAS# CAS# 64-75-5 is listed on the TSCA Inventory.

Section 16 - Additional Information

MSDS Creation Date: March 1, 2009

Update: March 2, 2009

The above information is believed to be accurate and represents the best knowledge available to us currently. 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. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.

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