

30-3634

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

CHEMTREC (24hr) 1-800-424-9300

Section 1: Identification

Product Name CIPROFLOXACIN HYDROCHLORIDE USP MONOHYDRATE

Commercial NameNot available.Product UseNot availableRestrictions On UseNot available

Company PCCA In case of emergency contact:

Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

9901 South Wilcrest

Section 2: Hazard(s) Identification

OSHA Haz Com: Serious eye damage/eye irritation Category 2A

CFR 1910.1200

Product Code

Signal Word WARNING

Hazard Statement(s) Causes serious eye irritation

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Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Wash thoroughly after handling. Wear eye/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Ciprofloxacin Hydrochloride USP

% By Weight 100

CAS# 86393-32-0 Molecular Weight Not available.

Chemical Formula C17H18FN3O3.HCL.H2O

Synonym(s) 3-Quinolinecarboxylic acid, 1-cyclopropyl-6-fuoro-1, 4-dihydro-4-oxo-7-(1-piperazinyl)-, monohydrochloride,

monohydrate

Mixtures

NameCAS#% by WeightTLV/PELLC50/LD50Ciprofloxacin Hydrochloride USP86393-32-0100

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Section 4: First-Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye Contact Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately

Symptoms/Effects

Acute Gastrointestinal disturbances. Central nervous system stimulation. Pharmacologically active material.

Occupational exposure may cause physiological effects.

Delayed Gastrointestinal disturbances. Central nervous system stimulation. Pharmacologically active material.

Occupational exposure may cause physiological effects.

Immediate Medical Attention

Provide general supportive measures and treat symptomatically. Treatment of quinolone overdose may include the following: To prevent crystalluria, provide adequate hydration. For seizures, administer intravenous diazepam or lorazepam. If seizures recur, consider phenobarbital. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. For hypotension, infuse isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. Monitor for potential increases in intracranial pressure, for hyperglycemia, and for metabolic acidosis. Treat moderate to severe pseudomembranous colitis with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against C. difficile colitis.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

Firefighters Special Equipment and Precautions

Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

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Section 8: Exposure Controls/Personal Protection

Exposure Limits
Engineering Controls

Not available.

Personal Protection

For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity. potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

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Section 9: Physical and Chemical Properties

Appearance Light yellow powder. Solid.

Odor Odorless.
Odor Threshold Not available

Melting Point 604.4 - 608 °F (318 - 320 °C) pH in aqueous solution 3 - 4.5 Solution

Freezing Point Not available **Vapor Pressure** Not available. Not available. Not available. **Boiling Point/Range** Vapor Density Not available Not available. **Decomposition temperature** Viscosity **Partition Coefficient:** Not available **Evaporation Rate** Not available

n-octanol/water

Flash Point Not available. Autoignition temperature Not available

Flammability
Not available
Flammability or Explosive Limits:

Lower Not availableUpper Not available

Solubility(ies) Sparingly soluble in water.

Other Dehydrated alcohol: Very slightly soluble. Acetic acid: Slightly soluble. Methyl alcohol: Slightly soluble.

Acetone: Practically insoluble. Acetonitrile: Practically insoluble. Dichloromethane: Practically insoluble. Ethyl acetate: Practically insoluble. Hexane: Practically insoluble. Chemical family Fluoroguinolone. Dust explosion properties St class 1 Weak explosion. Molecular formula

C17H18FN3O3 . HCl . H2O Molecular weight 385.82 g/mol

Section 10: Stability and Reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and

transport

Chemical Stability Material is stable under normal conditions

Hazardous Polymerization No dangerous reaction known under conditions of normal use

Conditions to Avoid Contact with incompatible materials

Incompatible Materials Oxidizing agents

Hazardous Decomposition Products Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx, HCl,

F-.

Section 11: Toxicological Information

RTECS VB1994000

Acute Toxicity

Acute Oral LD50 Mouse > 5000 mg/kg (anhydrous) Rat > 5000 mg/kg (anhydrous)

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Causes serious eye irritation

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not confirmed

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Reproductive Toxicity

Not available

Routes of Entry

Eye.

Symptoms Related to Exposure

Fluoroguinolones: Gastrointestinal disturbances. Altered taste. Dizziness. Drowsiness. Headache. Sleep disturbances. Slurred speech. Tremors. Restlessness. Convulsions. Skin rash. Joint tenderness or swelling. Numbness or tingling of hands or feet.

Not available

Not available Target Organ(s)

Section 12: Ecological Information

Ecotoxicity

Aquatic Acute Algae EC50 Algae >= 100 mg/l, 72 hours Fish LC50 Zebra danio (Danio rerio) 1000 mg/l, 96 hours

Persistance and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations

Waste Disposal

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

Disposal of Container

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Other Considerations

Nto available

Section 14: Transport Information

DOT Classification

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations

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US federal regulations: CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 Toxic Substances Control Act (TSCA) TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. SARA 302 Extremely hazardous substance Superfund Amendments and Reauthorization Act of 1986 (SARA) Not listed. YesSARA 311/312 Hazardous chemical Serious eye damage or eye irritationClassified hazard categories SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Other

Not available

Section 16: Other Information

Not available

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