



Specialized in chemicals

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Material Safety Data Sheet

Levofloxacin hemihydrate

Section 1: Chemical Product and Company Identification

1.1 Product identifiers

Product Name: Levofloxacin hemihydrate

Molecular formula: C₁₈H₂₀FN₃O₄ · 1/2H₂O

CAS Nr: 100986-85-4

Molecular weight: 370.38

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

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Section 2: Hazards Identification

Usual adult dose: The usual oral adult dose of ofloxacin is 200 to 400 mg every 12 hours.

Adverse effects: Adverse effects may include nausea, diarrhea, vomiting, mild abdominal or stomach pain, dizziness, headache, nervousness, drowsiness or insomnia, increased sensitivity of skin to sunlight, vaginitis, skin problems, and taste disturbances.
Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose effects: There is limited information regarding overdose with ofloxacin, but symptoms may include drowsiness, nausea, dizziness, hot and cold flushed, facial swelling and numbness, slurred speech, and moderate disorientation.

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization

Inhalation: May cause irritation. Remove to fresh air.

Eye: May cause irritation. Flush with copious quantities of water.

Skin: May cause irritation. Flush with copious quantities of water.

Ingestion: May cause irritation. Flush out mouth with water. This material is rapidly and well absorbed from the gastrointestinal tract.

Medical conditions aggravated by exposure: Hypersensitivity to the material, CNS disorders including cerebral arteriosclerosis, epilepsy or other predisposition to seizures, history of photosensitivity, impaired kidney function, and history of tendonitis or tendon rupture.

Cross sensitivity: Persons sensitive to fluoroquinolones or other chemically related quinolone derivatives may be sensitive to this material also.

Pregnancy comments: Adequate and well-controlled pregnancy studies in humans have not been done. Although studies in rats and rabbits given large doses have not shown that ofloxacin causes birth defects, other quinolones have been known to cause joint disease in immature animals.

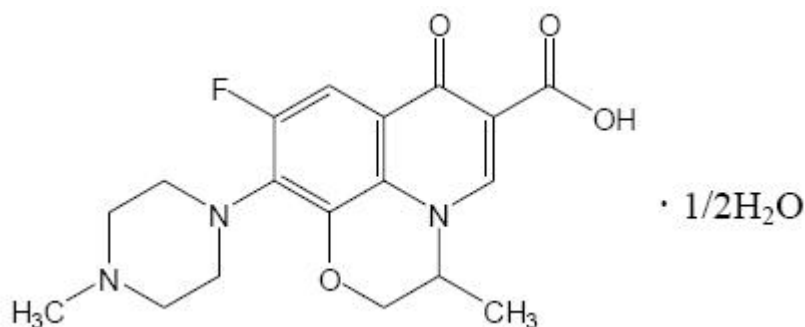
Section 3: Composition and Information on Ingredients

Chemical name:

(-)-(S)-9-fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid hemihydrate

CAS No.: 138199-71-0

Structure:



Molecular formula: C₁₈H₂₀FN₃O₄ · 1/2H₂O

Molecular weight: 370.38

Chemical Family: Fluoroquinolone

Therapeutic category: Antibacterial

Section 4: First Aid Measures

General: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Overdose Treatment: overdose treatment should be symptomatic and supportive and may include the following:

1. Induce vomiting or perform gastric lavage to empty the stomach.
2. Maintain adequate hydration.

Section 5: Firefighting measures

Flash Point: n/f (n/f=not found)

Auto-ignition temperature: n/f

Upper flammable limit: n/f

Lower flammable limit: n/f

Extinguisher media: water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Fire and explosion hazards: this material is assumed to be combustible.

Firefighting procedure: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Section 6: Toxicological information

Oral rat: LD50: 3590mg/kg

Oral mouse: LD50: 3266mg/kg

Irritancy data: n/f

Target organ (s): n/f

Listed as carcinogen? NTP: No IARC: No OSHA: No Other: No

Section 7: Physical Hazards

Conditions to Avoid: Avoid exposure to light

Incompatibilities: Strong oxidizing agents

Decomposition products: When heated to decomposition material emits toxic fumes of F- and NOX. Emits toxic fumes under fire conditions.

Stable? Yes

Hazardous Polymerization? No

Section 8: Handling/Spill/Disposal Measures

Handling: As a general rule, when handling the materials avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Store in tight, light-resistant container. This material should be handled and stored per label instructions to ensure product integrity.

Spill response: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for

disposal. Wash spill site.

Disposal: dispose of waste in accordance with all applicable federal. State and local laws

Section 9: Exposure controls/Personal protection

Respiratory protection: When working with small quantities in a well-ventilated area, respiratory protection may not be required.

The use of an approved dust mask is recommended.

Ventilation: No special ventilation requirements.

Gloves: Rubber

Eye protection: Safety glasses

Protective clothing: protect exposed skin.

Section 10: Physical and Chemical Properties

Appearance and odor: Colorless needles, or off-white to pale yellow crystalline powder.

Melting point: 250-270°C (decomposes)

Solubility in water: Sparingly to slightly soluble

Boiling point: n/f

Specific gravity: n/f

Vapor pressure: n/f

Vapor density: n/f

Evaporation rate: n/f

Reactivity in water: n/f

Volatile by volume: n/f

Section 11: Ecological Information

n/f

Section 12: Disposal Information

Disposal: Place material in a thick plastic hazardous waste disposal bag or leakproof container and label it CAUTION: HAZARDOUS CHEMICAL WASTE. Dispose of waste in accordance with all applicable Federal, State and local laws.

Section 13: Transport Information

n/f

Section 14: Regulatory Information

n/f

Section 15: Other Information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.