

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

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

### Section 1: Identification

Levofloxacin USP **Product Name** 

**Commercial Name** 

**Product Use** Broad-spectrum antibiotic with activity against many gram-positive and gram-negative organisms.

Not available **Restrictions On Use** 

30-4711 **Product Code** 

**PCCA** Company In case of emergency contact:

> 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498

Fax: 1-800-874-5760

### Section 2: Hazard(s) Identification

Acute Toxicity, oral Category 4 **OSHA Haz Com:** 

CFR 1910.1200

DANGER Signal Word

Hazard Statement(s) Harmful if swallowed. May cause allergic skin reaction. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Suspected of damaging the unborn child. May cause harm to breast fed

children.

### Pictogram(s) or Symbol(s)





### Precautionary Statement(s):

Prevention Wash thoroughly after handling.

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. Response

Storage Not available.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

### Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture Levofloxacin Components Levofloxacin:>98% % By Weight 138199-71-0 CAS# Molecular Weight 370.3800

C18H20FN3O4·1/2H2O **Chemical Formula** 

Synonym(s) C18- H2O -F -N3- 04.1/21120, 7H- pyrido[I, 2, 3- de] -1, 4- benzoxazine -6- carboxylic acid, " ", 7H- pyrido[I,

2, 3- de] -1, 4- benzoxazine -6- carboxylic acid, "2, 3- dihydro -9- fluoro -3- methyl- 10 -(4- methyl -1-

piperazinyl) -7 -oxo -, hemihydrate, (S) - ", "2, 3- dihydro-9-fluoro-3- methyl- 10 -(4- methyl- 1 -pipe razinyl) -7 -oxo -, hemihydrate, (S) ", DR3355, (-)- ofloxacin, (S)- ofloxacin, Levaquin, RWJ- 25213, "fluoroquinolone /

fluoroquinoline fluorinated quinolone/ quinoline ", "antibiotic/antibacteriaV antibiotic ".

### **Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Levofloxacin Hemihydrate	100986-85-4	>98	N/A	N/A
	N/A	N/A	N/A	N/A

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### Section 4: First-Aid Measures

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

Wash off with soap and water. If skin irritation occurs: Get medical advice/attention. **Skin Contact** 

Rinse cautiously with water for several minutes. Get medical attention if irritation develops and persists **Eve Contact** Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately. Ingestion

Symptoms/Effects

Pharmacologically active material. Occupational exposure may cause physiological effects. **Acute** Pharmacologically active material. Occupational exposure may cause physiological effects. Delayed

### **Immediate Medical Attention**

Provide general supportive measures and treat symptomatically. Administer activated charcoal as a slurry. For seizures, administer intravenous diazepam or lorazepam. If seizures recur, administer phenobarbital or propofol Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. For moderate or severe pseudomembranous colitis, manage with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against Clostridium difficile colitis. Hemodialysis is unlikely to be of benefit, Peritoneal dialysis is not effective.

### 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**

### **Products of Combustion**

No unusual fire or explosion hazards noted

### **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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: 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. For waste disposal, see section 13 of the SDS. 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. Use of a designated area is recommended for handling of potent materials. 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.

### Section 8: Exposure Controls/Personal Protection

**Exposure Limits Engineering Controls**  Not available.

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.

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### **Personal Protection**

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 consideration: 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 Yellow. Powder. Solid.

Odor Odorless.
Odor Threshold N/A

435.2 - 444.2 °F (224 - 229 ° N/A **Melting Point** pН Freezing Point N/A **Vapor Pressure** N/A N/A **Vapor Density** >1 **Boiling Point/Range** N/A N/A **Decomposition temperature Viscosity Partition Coefficient:** N/A **Evaporation Rate** N/A

n-octanol/water

Flash Point N/A Autoignition temperature N/A

Flammability N/A Flammability or Explosive Limits:

Lower N/A

Upper N/A

**Solubility(ies)** Slightly soluble in water.

Other Chloroform: Freely soluble. Methanol: Sparingly soluble. Ethanol: Slightly soluble Chemical family

Fluoroquinolone. Molecular formula C18H20FN3O4 Molecular weight 370.38

Section 10: Stability and Reactivity

Reactivity The 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 NOx. F-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

### Section 11: Toxicological Information

RTECS N/A

**Acute Toxicity** 

Harmful if swallowed. Oral LD50 Mouse 1803 mg/kg Rat 1478 mg/kg

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

**Germ Cell Mutagenicity** 

Not available

Carcinogenicity

Not available

**Reproductive Toxicity** 

Not available

Routes of Entry

Ingestion.

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### Symptoms Related to Exposure

Fluoroquinolones: 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.

### **Potential Health Effects**

Not available

Target Organ(s)

Not available.

### Section 12: Ecological Information

### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Persistance and Degradability

No data available

### **Bioaccumulative Potential**

No data available

### **Mobility in Soil**

No data available

### Other Adverse Effects

No data 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. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### **Disposal of Container**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Other Considerations

Not available

### Section 14: Transport Information

### **DOT Classification**

Not regulated.

### Section 15: Regulatory Information

### Regulations

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 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 1910.1001-1052) Not regulated. SARA 302 Extremely hazardous substance Superfund Amendments and Reauthorization Act of 1986 (SARA) Not listed. YesSARA 311/312 Hazardous chemical Acute toxicity (any route of exposure)Classified 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) US state regulations California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### Other

N/A

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Section 16: Other Information

N/A

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