

Section 1 - Chemical Product and Company

Distributor:

Sagent Pharmaceuticals, Inc. 1901 N. Roselle Rd, Suite 700 Schaumburg, IL 60195 847-908-1600

Emergency Telephone: 866-625-1618

Product Identifier: Levofloxacin **Product Code:** 25021-130 **Common/Trade Name:** Levaquin

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

Chemical Family: Fluoroquinolone **Product Use:** Pharmaceutical

Product Type: Regulated Prescription Drug

Container Information: Vial

Section 2 - Composition / Information on Ingredients

Ingredient	mg/mL	CAS No.
Levofloxacin	25	100986-85-4
Hydrochloric Acid	q.s. to pH	7647-01-0
Sodium Hydroxide	q.s. to pH	1310-73-2
Water for Injection	q.s. to 1 mL	7732-18-5

Sagent Pharmaceuticals, Inc. Levofloxacin Injection Material Safety Data Sheet (MSDS) Issue Date: Jan 16, 2012 MSDS 050 M

Section 3 - Hazards Identification

Primary Physical and Health

Hazards:

Levofloxacin may be irritating to mucous membranes and

respiratory tract.

Routes of Entry: Ingestion, inhalation, skin and eyes.

Signs & Symptoms of

Exposure:

Abnormal taste, headache, allergic reactions, diarrhea and

gastrointestinal disturbances.

Chemical Listed as

Carcinogen:

NTP: No IARC: No OSHA: No

Medical Conditions Generally Aggravated by

Exposure:

Conditions affected by Levofloxacin are severe allergic reaction to an antibiotic known as a fluoroquinolone, or if you are allergic to any of the ingredients in

LEVOFLOXACIN

Section 4 - First Aid Measures

Eye Exposure: Wash immediate with large amounts of water or normal saline. Keep

eyelids open with the finger. Get medical attention and be sure to

show the label.

Skin Exposure: Remove contaminated clothes and shoes immediately. Wash affected

area with soap or mild detergent and large amount of water until no evidence of substance remains (15-20 minutes). Get medical

attention immediately.

Ingestion: If swallowed, wash mouth with water, provided person is conscious.

Get medical attention immediately.

Injection: See patient package insert in shipping carton for complete

information.

Inhalation: Avoid breathing dusts that may be generated by handling of the

product. Remove the person from the exposed area to fresh air

immediately. Get medical advice if adverse symptoms appear.

Notes to Physician: See patient package insert in shipping carton for complete

information.

Section 5 - Fire Fighting Measures

Flash Point: Not established

Auto-ignition Temperature: Not established

Flammable Limits in Air: Lower %: Not established

Upper %: Not established

Flammable Limits: Not established

Extinguishing Media: Nebulised water, chemical powder, foam, CO₂. Use any

means suitable for extinguishing surrounding fire.

Small Fire: carbon dioxide, foam

Large Fire: fog, foam

Special Fire Fighting

Procedures:

Wear boots, overalls, gloves, eye and face protection and breathing apparatus. Equipment must be conformed with EN criteria and used in highest condition of protection on the basis of the information reported in the previous sub-

sections.

Unusual Fire/Explosion Hazards: Unsuitable extinguishing media are not known. Adding

water to caustic solution generates large amounts of heat.

Section 6 - Accidental Release Measures

Spill: Collect all of the material scattered on the ground with protective

equipment adapted and put it in a clean and dry container. Keep unnecessary and unprotected people away from area of spill. Wear

appropriate personal equipment as specified in Section 8.

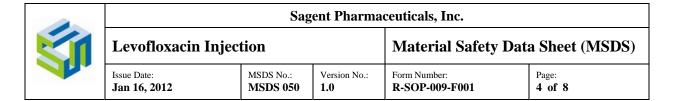
Spillage to be vacuum cleaned or swept. It should be placed in appropriate container for waste disposal. Avoid raising dust. Area should be ventilated and spill site washed after material pick up is

complete.

Release to Air: Ventilate area of leak or spill.

Release to Water: Refer to local water authority. Drain disposal is not recommended;

refer to local, state, and federal disposal guidelines.



Section 7 - Handling and Storage

General Handling: Handle away from flames and sources of ignition. Handle in a well

ventilated place. Avoid contact with incompatible materials. Store in tight containers in a cool dry place. Wear suitable personal protection equipment (see section 8). Keep the mixture away from drains, surface or ground waters. Do not eat, drink or smoke in the working areas. Wash hands after handling this mixture. Remove contaminated

clothing and protective equipment before entering eating areas.

This material should be handled and stored as per label and other

instructions to ensure product integrity.

Waste Disposal

Method:

Dispose of in accordance with all applicable Federal, State and local

environmental regulations

Storage Conditions: Stored at or below 25°C (77°F); however, brief exposure up to 40°C

(104°F) does not adversely affect the product. Avoid excessive heat and protect from freezing and light. Follow instructions provided in

packaging.

Section 8 - Exposure Controls / Personal Protection

Respiratory Adequate masks and NIOSH/MSHA approved respirator to be

Protection: provided in case of powder being blown.

Eye Protection: Safety goggles

Ventilation: Use a powder filter like P1, P2 and P3. Use only devices approved by

NIOSH / MSHA.

Skin Protection: Appropriate laboratory apparel to be used to protect exposed skin.

Use only in a chemical fume hood.

Other Protective

Equipment:

Select the suitable protective equipment based on the activity of use

and possible exposure.

Additional

Exposure Precautions:

Not applicable



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Exposure Limits

Compound	<u>Issuer</u>	Type	<u>OEL</u>
Levofloxacin	OSHA ACGIH	PEL TLV	NE NE
		STEL	NE

Section 9 - Physical and Chemical Properties

Physical State:LiquidSpecific Gravity:Not availableAppearance andClear yellow toEvaporationNot available

Odor: clear greenish –

yellow solution

odorless

Boiling Point:Not availableMelting Point:Not applicableVapor Pressure:Not availableSolubility in Water:Not applicable

Vapor Density: Not available **pH:** 3.8 - 5.8

Molecular Weight: 370.38

Section 10 - Stability and Reactivity

Stability: Stable under normal condition of temperature and pressure

and if stored per package insert.

Incompatibility (Materials to

avoid):

Strong oxidizing agents

Hazardous Decomposition: If heated at high temperatures, decomposes releasing fumes

and toxic gases of Cox, NOx and HF.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Heat, moisture, incompatibles.

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Section 11 - Toxicological Information

Signs & Symptoms of

Abnormal taste, headache, allergic reactions, diarrhea and

Exposure:

gastrointestinal disturbances.

Acute Toxicity

Component	Туре	Route	Species	Dosage
Levofloxacin	LD ₅₀	Oral	Rat	503 mg/kg
Levofloxacin	LD_{50}	Oral	Mouse	285 mg/kg

Section 12 - Ecological Information

No applicable ecological information found.

Section 13 - Disposal Considerations

Waste Disposal: Dispose of any cleanup materials and waste residue according to all applicable laws and regulations.

Section 14 - Transport Information

Regulatory Organizations:

DOT: Not Regulated

ICAO/IATA: Not Regulated

IMO: Not Regulated

Section 15 - Regulatory Information

Below is selected regulatory information chosen primarily for possible Sagent usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

U.S. Regulations

TSCA - No

CERCLA - Not on this list

SARA 302 - Not on this list

OSHA Substance Specific - No

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Section 16 - Other Information

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact: Sagent Pharmaceuticals, Inc. 1901 N. Roselle Rd, Suite 700 Schaumburg, IL 60195 847-908-1600

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Glossary: This glossary contains definitions of general terms used in MSDSs. Not all of these Glossary Terms will apply to this MSDS.

ACGIH American Conference of Governmental Industrial Hygienists AIHA American Industrial Hygiene Association CAS Chemical Abstract Service Registry Number Number CERCLA Comprehensive Environmental Response Compensation and Liability Act (of 1980) CHAN Chemical Hazard Alert Notice CHEMTREC Chemical Transportation Emergency Center DOT Department of Transportation EPA Environmental Protection Agency HEPA High Efficiency Particulate Air (Filter) IARC International Agency for Research on Cancer ICAO/IATA International Civil Aviation Organization/International Air Transport Association MO International Maritime Organization KOW Octanol/Water Partition Coefficient LEL Lower Explosive Limit MSDS Material Safety Data Sheet MSHA Mine Safety and Health Administration NA Not Applicable, except in Section 14 where NA = North America NE Not Established NADA New Animal Drug Application NAIF No Applicable Information Found NCI National Cancer Institute NIOSH National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act RQ Reportable Quantity
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RQ Reportable Quantity
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act
STEL Short Term Exposure Limit
TLV Threshold Limit Value (ACGIH)
TPQ Threshold Planning Quantity
TSCA Toxic Substances Control Act
TWA Time Weighted Average/8 Hours Unless Otherwise Noted
UEL Upper Explosive Limit
UN United Nations
USP United States Pharmacopeia
WEEL Workplace Environmental Exposure Level (AIHA)