LUPIN LIMITED

SAFETY DATA SHEET

Section 1: Identification

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Material Levofloxacin Tablets USP

250 mg, 500 mg and 750 mg

Manufacturer Lupin Limited

Goa - 403722

India

Distributor Lupin Pharmaceuticals, Inc.

111 South Calvert Street, Harborplace Tower, 21st Floor, Baltimore, Maryland 21202

United States

Tel. 001-410-576-2000 Fax. 001-410-576-2221

Section 2: Hazard(s) Identification

Section 2, Hazard(s) identification

Fire and Explosion Expected to be non-combustible.

Health Levofloxacin tablets are contraindicated in persons with known

hypersensitivity to levofloxacin, or other quinolone antibacterials.

Environment No information is available about the potential of this product to

produce adverse environmental effects.

Section 3: Composition/Information on Ingredients

Section 3, Composition/information on ingredients

Ingredients CAS

Levofloxacin Hemihydrate USP 138199-71-0

Section 4: First-Aid Measures

Section 4, First-aid measures

Ingestion If conscious, give water to drink and induce vomiting. Do not attempt to

give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. Obtain medical

attention.

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Inhalation Move individual to fresh air. Obtain medical attention if breathing

difficulty occurs. If not breathing, provide artificial respiration

assistance.

Skin Contact Remove contaminated clothing and flush exposed area with large

amounts of water. Wash all exposed areas of skin with plenty of soap

and water. Obtain medical attention if skin reaction occurs.

Eye Contact Flush eyes with plenty of water. Get medical attention.

NOTES TO HEALTH PROFESSIONALS

Medical Treatment Treat according to locally accepted protocols. For additional guidance,

refer to the current prescribing information or to the local poison control information center. Protect the patient's airway and support ventilation and perfusion. Meticulously monitor and maintain, within acceptable limits, the patient's vital signs, blood gases, serum electrolytes, etc.

OVERDOSAGE In the event of an acute overdosage, the stomach should be emptied.

The patient should be observed and appropriate hydration maintained. Levofloxacin is not efficiently removed by hemodialysis or peritoneal

dialysis.

Levofloxacin exhibits a low potential for acute toxicity. Mice, rats, dogs and monkeys exhibited the following clinical signs after receiving a single high dose of levofloxacin: ataxia, ptosis, decreased locomotor activity, dyspnea, prostration, tremors, and convulsions. Doses in excess of 1500 mg/kg orally and 250 mg/kg IV produced significant

mortality in rodents.

Section 5: Fire-Fighting Measures

Section 5, Fire-fighting measures

Fire and Explosion Hazards Assume that this product is capable of sustaining combustion.

Extinguishing Media Water spray, carbon dioxide, dry chemical powder or appropriate

foam.

Special Firefighting Procedures For single units (packages): No special requirements needed.

For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapors might be evolved from fires involving this product and associated packaging, self-contained breathing apparatus and full protective equipment are recommended for

firefighters.

Hazardous Combustion Products Hazardous combustion or decomposition products are expected

when the product is exposed to fire.

Section 6: Accidental Release Measures

Section 6, Accidental release measures

Personal Precautions Wear protective clothing and equipment consistent with the degree of

hazard.

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Environmental Precautions For large spills, take precautions to prevent entry into waterways

sewers, or surface drainage systems.

Clean-up Methods Collect and place it in a suitable, properly labeled container for

recovery or disposal.

Section 7: Handling and Storage

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Handling No special control measures required for the normal handling of this

product.

Normal room ventilation is expected to be adequate for routine

handling of this product.

Storage Levofloxacin tablets USP should be stored at 25°C (77°F); excursions

permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room

Temperature] in well-closed containers as described in the USP.

Section 8: Exposure Controls/Personal Protection

Section 8, Exposure controls/personal protection

Wear appropriate clothing to avoid skin contact. Wash hands and arms thoroughly after handling.

Section 9: Physical and Chemical Properties

Section 9, Physical and chemical properties

Physical Form Levofloxacin tablets are supplied as 250, 500, and 750 mg coated

tablets.

Levofloxacin tablets are packaged in bottles and in unit-dose blister

strips in the following configurations:

250 mg tablets are terra cotta pink, oblong shaped, film-coated tablets,

imprinted 'L021' (in black ink) on one side and plain on the other side. Bottles of 50 NDC 68180-240-08

Bottles of 100 NDC 68180-240-01
Bottles of 500 NDC 68180-240-02
Unit Dose Blisters of 10x10s NDC 68180-240-13

500 mg tablets are peach, oblong shaped, film-coated tablets, imprinted

'L022' (in black ink) on one side and plain on the other side.

Bottles of 50

NDC 68180-241-08

NDC 68180-241-01

Bottles of 100 NDC 68180-241-01
Bottles of 500 NDC 68180-241-02
Unit Dose Blisters of 10x10s NDC 68180-241-13

750 mg tablets are white, capsule-shaped, film-coated tablets, imprinted 'L023' (in black ink) on one side and plain on the other side.

Bottles of 20 NDC 68180-242-20 Bottles of 100 NDC 68180-242-01

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NDC 68180-242-02 NDC 68180-242-13

Section 10: Stability and Reactivity

Section 10, Stability and reactivity

Stable under recommended storage conditions.

Section 11: Toxicological Information

Section 11, Toxicological information

Carcinogenesis, Mutagenesis, Impairment of Fertility

In a lifetime bioassay in rats, levofloxacin exhibited no carcinogenic potential following daily dietary administration for 2 years; the highest dose (100 mg/kg/day) was 1.4 times the highest recommended human dose (750 mg) based upon relative body surface area.

Levofloxacin did not shorten the time to tumor development of UV-induced skin tumors in hairless albino (Skh-1) mice at any levofloxacin dose level and was therefore not photo-carcinogenic under conditions of this study. Dermal levofloxacin concentrations in the hairless mice ranged from 25 to 42 mcg/g at the highest levofloxacin dose level (300 mg/kg/day) used in the photo-carcinogenicity study. By comparison, dermal levofloxacin concentrations in human subjects receiving 750 mg of levofloxacin averaged approximately 11.8 mcg/g at Cmax.

Levofloxacin was not mutagenic in the following assays: Ames bacterial mutation assay (*S. typhimurium* and *E. coli*), CHO/HGPRT forward mutation assay, mouse micronucleus test, mouse dominant lethal test, rat unscheduled DNA synthesis assay, and the mouse sister chromatid exchange assay. It was positive in the *in vitro* chromosomal aberration (CHL cell line) and sister chromatid exchange (CHL/IU cell line) assays. Levofloxacin caused no impairment of fertility or reproductive performance in rats at oral doses as high as 360 mg/kg/day, corresponding to 4.2 times the highest recommended human dose based upon relative body surface area and intravenous doses as high as 100 mg/kg/ day, corresponding to 1.2 times the highest recommended human dose based upon relative body surface area.

Section 12: Ecological Information

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No relevant studies identified.

Section 13: Disposal Considerations

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Incinerate in an approved facility. Follow all federal state and local environmental regulations.

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Section 14: Transport Information

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IATA/ICAO - Not Regulated

IATA Proper shipping Name : N/A
IATA UN/ID No : N/A
IATA Hazard Class : N/A
IATA Packaging Group : N/A
IATA Label : N/A

IMDG - Not Regulated

IMDG Proper shipping Name:N/AIMDG UN/ID No:N/AIMDG Hazard Class:N/AIMDG Flash Point:N/AIMDG Label:N/A

DOT - Not Regulated

DOT Proper shipping Name:N/ADOT UN/ID No:N/ADOT Hazard Class:N/ADOT Flash Point:N/ADOT Packing Group:N/ADOT Label:N/A

Section 15: Regulatory Information

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This Section Contains Information relevant to compliance with other Federal and/or state laws.

Section 16: Other Information

Section 16, Other 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. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Lupin shall not be held liable for any damage resulting from handling or from contact with the above product. Lupin reserves the right to revise this MSDS.

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