LUPIN LIMITED

SAFETY DATA SHEET

Section 1: Identification

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Material Leflunomide Tablet USP

10 mg and 20 mg

Manufacturer Lupin Limited

Pithampur (M.P.) - 454 775

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

Leflunomide tablet is contraindicated in:

- Pregnant women. Leflunomide tablets may cause fetal harm. If a woman becomes pregnant while taking this drug, stop leflunomide tablets, apprise the patient of the potential hazard to the fetus, and begin a drug elimination procedure.
- Patients with severe hepatic impairment
- Patients with known hypersensitivity to leflunomide or any of the other components of leflunomide tablets. Known reactions include anaphylaxis
- Patients being treated with teriflunomide

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

IngredientsCASLeflunomide USP75706-12-6

Section 4: First-Aid Measures

Section 4, First-aid measures

Ingestion Never give anything by mouth to an unconscious person. Wash out mouth

with water. Do not induce vomiting unless directed by medical personnel.

Seek medical attention immediately.

Inhalation Remove to fresh air and keep patient at rest. Seek medical attention

immediately.

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Skin Contact Remove contaminated clothing. Flush area with large amounts of water.

Use soap. Seek medical attention.

Eye Contact Flush with water while holding eyelids open for at least 15 minutes. Seek

medical attention immediately.

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 There have been reports of chronic overdose in patients taking

leflunomide tablets at daily dose up to five times the recommended daily dose and reports of acute overdose in adults and children. Adverse events were consistent with the safety profile for leflunomide tablets. The most frequent adverse events observed were diarrhea, abdominal pain, leukopenia, anemia and elevated liver function tests.

In the event of a significant overdose or toxicity, perform an accelerated drug elimination procedure to accelerate elimination.

Studies with both hemodialysis and CAPD (chronic ambulatory peritoneal dialysis) indicate that teriflunomide, the primary metabolite of leflunomide, is not dialyzable.

Section 5: Fire-Fighting Measures

Section 5, Fire-fighting measures

Fine particles (such as dust and mists) may fuel fires/explosions.

Extinguishing MediaUse carbon dioxide, dry chemical, or water spray.

Special Firefighting Procedures During all fire-fighting activities, wear appropriate protective equipment,

including self-contained breathing apparatus.

Hazardous Combustion Products May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen

oxides, hydrogen chloride, and other chlorine-containing compounds.

Section 6: Accidental Release Measures

Section 6, Accidental release measures

Personal Precautions Personnel involved in clean-up should wear appropriate personal

protective equipment. Minimize exposure.

Environmental Precautions Place waste in an appropriately labeled, sealed container for disposal.

Care should be taken to avoid environmental release.

Clean-up Methods Contain the source of spill if it is safe to do so. Collect spill with absorbent

material. Clean spill area thoroughly.

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Section 7: Handling and Storage

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Handling Avoid generating airborne dust. If tablets or capsules are crushed and/or

broken, avoid breathing dust and avoid contact with eyes.

Storage Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C

(59°F to 86°F) [see USP Controlled Room Temperature]. Protect from light.

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

Leflunomide tablets USP; 10 mg and 20 mg

Strength	Quantity	NDC	Description
		Number	
10 mg	30 count bottle packed in a monocarton	70748-129-06	White to off-white, round film coated tablet, debossed with "L" on one side and "A4" on the other side.
20 mg	30 count bottle packed in a monocarton	70748-130-06	Yellow colour, film coated, round shaped tablet, debossed with "L" on one side and "A5" on the other side.

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

No evidence of carcinogenicity was observed in a 2-year bioassay in rats at oral doses of leflunomide up to the maximally tolerated dose of 6 mg/kg (approximately 1/40 the maximum human teriflunomide systemic exposure based on AUC). However, male mice in a 2-year bioassay exhibited an increased incidence in lymphoma at an oral dose of 15 mg/kg, the highest dose studied (1.7 times the human teriflunomide exposure based on AUC). Female mice, in the same study, exhibited a dose-related increased incidence of bronchoalveolar adenomas and carcinomas combined beginning at 1.5 mg/kg (approximately 1/10 the human teriflunomide exposure based on AUC). The significance of the findings in mice relative to the clinical use of leflunomide tablet is not known.

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Leflunomide was not mutagenic in the Ames assay, the unscheduled DNA synthesis assay, or in the HGPRT gene mutation assay. In addition, leflunomide was not clastogenic in the in vivo mouse micronucleus assay or in the in vivo Chinese hamster bone marrow cell cytogenic test.

However, 4-trifluoromethylaniline (TFMA), a minor metabolite of leflunomide, was mutagenic in the Ames assay and in the HGPRT gene mutation assay, and was clastogenic in the in vitro Chinese hamster cell chromosomal aberration assay. TFMA was not clastogenic in the in vivo mouse micronucleus assay or in the in vivo Chinese hamster bone marrow cell cytogenic test.

Leflunomide had no effect on fertility or reproductive performance in either male or female rats at oral doses up to 4.0 mg/kg (approximately 1/30 the human teriflunomide exposure based on AUC).

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.

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/A
IMDG UN/ID No	:	N/A
IMDG Hazard Class	:	N/A
IMDG Flash Point	:	N/A
IMDG Label	•	N/A

DOT - Not Regulated

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

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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 SDS.

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