LUPIN LIMITED SAFETY DATA SHEET

Section 1: Identification

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Material Lisinopril Tablets USP

2.5 mg, 5 mg, 10 mg, 20 mg, 30 mg and 40 mg

Manufacturer Lupin Limited, 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

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Fire and Explosion Expected to be non-combustible.

Health Lisinopril is contraindicated in combination with a neprilysin inhibitor

(e.g., sacubitril). Do not administer Lisinopril tablet USP within 36 hours of

switching to or from sacubitril/valsartan, a neprilysin inhibitor.

Lisinopril is contraindicated in patients with:

• a history of angioedema or hypersensitivity related to previous

treatment with an angiotensin converting enzyme inhibitor

hereditary or idiopathic angioedema

Do not co-administer aliskiren with lisinopril in patients with diabetes.

EnvironmentNo information is available about the potential of this product to produce

adverse environmental effects.

Section 3: Composition/Information on Ingredients

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Ingredients CAS

Lisinopril USP 83915-83-7

Section 4: First-Aid Measures

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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 patient from exposure, keep warm and at rest. Obtain medical

attention if ill effects occur.

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Skin Contact Wash skin with soap and water. If symptoms (irritation or blistering) occur

obtain 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 Following a single oral dose of 20 g/kg no lethality occurred in rats, and

death occurred in one of 20 mice receiving the same dose. The most likely manifestation of overdosage would be hypotension, for which the usual treatment would be intravenous infusion of normal saline solution.

Lisinopril can be removed by hemodialysis.

Section 5: Fire-Fighting Measures

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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

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Personal Precautions Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions Avoid release to the environment.

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.

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Storage

Store at controlled room temperature, 20° to 25°C (68° to 77°F) [see USP]. Protect from moisture, freezing and excessive heat. Dispense in a tight container.

Section 8: Exposure Controls/Personal Protection

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

Section 9: Physical and Chemical Properties

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Physical Form F

How Supplied

Strength	Color	Shape	Scored	Side 1/Side 2	NDC
2.5 mg	White to	Round	No	LUPIN/2.5	Bottles of 90: 68180-512-09
	off-white				Bottles of 100: 68180-512-01
					Bottles of 500: 68180-512-02
					Bottles of 1000: 68180-512-03
5 mg	Pink	Round	Yes	5/Breakline	Bottles of 90: 68180-513-09
					Bottles of 100: 68180-513-01
					Bottles of 500: 68180-513-02
					Bottles of 1000: 68180-513-03
					Bottles of 5000: 68180-513-05
10 mg	Pink	Round	No	LUPIN/10	Bottles of 90: 68180-980-09
					Bottles of 100: 68180-980-01
					Bottles of 500: 68180-980-02
					Bottles of 1000: 68180-980-03
					Bottles of 5000: 68180-980-05
20 mg	Pink	Round	No	LUPIN/20	Bottles of 90: 68180-981-09
					Bottles of 100: 68180-981-01
					Bottles of 500: 68180-981-02
					Bottles of 1000: 68180-981-03
					Bottles of 5000: 68180-981-05
30 mg	Red	Round	No	LUPIN/30	Bottles of 90: 68180-982-09
					Bottles of 100: 68180-982-01
					Bottles of 500: 68180-982-02
					Bottles of 1000: 68180-982-03
40 mg	Yellow	Round	No	LUPIN/40	Bottles of 90: 68180-979-09
					Bottles of 100: 68180-979-01
					Bottles of 1000: 68180-979-03

Section 10: Stability and Reactivity

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The product is stable and non-reactive under normal conditions of use, storage and transport.

Section 11: Toxicological Information

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Carcinogenesis, Mutagenesis, Impairment of Fertility

There was no evidence of a tumorigenic effect when lisinopril was administered for 105 weeks to male and female rats at doses up to 90 mg per kg per day (about 56 or 9 times* the maximum recommended

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daily human dose, based on body weight and body surface area, respectively). There was no evidence of carcinogenicity when lisinopril was administered for 92 weeks to (male and female) mice at doses up to 135 mg per kg per day (about 84 times* the maximum recommended daily human dose). This dose was 6.8 times the maximum human dose based on body surface area in mice.

Lisinopril was not mutagenic in the Ames microbial mutagen test with or without metabolic activation. It was also negative in a forward mutation assay using Chinese hamster lung cells. Lisinopril did not produce single strand DNA breaks in an *in vitro* alkaline elution rat hepatocyte assay. In addition, lisinopril did not produce increases in chromosomal aberrations in an *in vitro* test in Chinese hamster ovary cells or in an *in vivo* study in mouse bone marrow.

There were no adverse effects on reproductive performance in male and female rats treated with up to 300 mg per kg per day of lisinopril. This dose is 188 times and 30 times the maximum human dose when based on mg/kg and mg/m^2 , respectively.

Studies in rats indicate that lisinopril crosses the blood brain barrier poorly. Multiple doses of lisinopril in rats do not result in accumulation in any tissues. Milk of lactating rats contains radioactivity following administration of ¹⁴C lisinopril. By whole body autoradiography, radioactivity was found in the placenta following administration of labeled drug to pregnant rats, but none was found in the fetuses.

*Calculations assume a human weight of 50 kg and human body surface area of 1.62 m²

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

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DOT - 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

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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