

# LUPIN LIMITED

## SAFETY DATA SHEET

### Section 1: Identification

#### Section 1, Identification

**Material** Amlodipine Besylate Tablets USP  
2.5 mg, 5 mg and 10 mg

**Manufacturer** Lupin Limited  
MADE IN 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** Amlodipine besylate tablets are contraindicated in patients with known sensitivity to amlodipine.

**Environment** No 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 No.
Amlodipine Besylate USP	88150-42-9
Microcrystalline Cellulose NF	9004-34-6
Dicalcium Phosphate Anhydrous USP	7757-93-9
Povidone K-30 USP	9003-39-8
Povidone USP	9003-39-8
Colloidal Silicon Dioxide NF	7631-86-9
Magnesium Stearate NF	557-04-0

\* The exact percentage composition of this mixture has been withheld as a trade secret.

## Section 4: First-Aid Measures

### Section 4, First-aid measures

<b>Ingestion</b>	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.
<b>Inhalation</b>	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
<b>Eye Contact</b>	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

### NOTES TO HEALTH PROFESSIONALS

<b>Medical Treatment</b>	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.
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<b>OVERDOSAGE</b>	Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited.
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Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in mice and rats, respectively, caused deaths. Single oral amlodipine maleate doses equivalent to 4 or more mg amlodipine/kg or higher in dogs (11 or more times the maximum recommended human dose on a mg/m<sup>2</sup> basis) caused a marked peripheral vasodilation and hypotension.

If massive overdose should occur, initiate active cardiac and respiratory monitoring. Frequent blood pressure measurements are essential. Should hypotension occur, provide cardiovascular support including elevation of the extremities and the judicious administration of fluids. If hypotension remains unresponsive to these conservative measures, consider administration of vasopressors (such as phenylephrine) with attention to circulating volume and urine output. As amlodipine is highly protein bound, hemodialysis is not likely to be of benefit.

## Section 5: Fire-Fighting Measures

### Section 5, Fire-fighting measures

<b>Fire and Explosion Hazards</b>	Not determined
<b>Extinguishing Media</b>	Use carbon dioxide, dry chemical, or water spray.

**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**

Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride and other chlorine- and sulfur-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.

## Section 7: Handling and Storage

**Section 7, Handling and storage****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**

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature] and dispense in tight, light-resistant containers (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****2.5 mg Tablets**

Amlodipine Besylate Tablets USP, 2.5 mg – (amlodipine besylate equivalent to 2.5 mg of amlodipine per tablet) are supplied as pink color mottled, round, flat-faced, beveled edged tablets debossed with “1” on one side and “U” on the other side and supplied as follows:

NDC 68180-233-01      Bottles of 90  
NDC 68180-233-02      Bottles of 1000

**5 mg Tablets**

Amlodipine Besylate Tablets USP, 5 mg – (amlodipine besylate equivalent to 5 mg of amlodipine per tablet) are supplied as white to off white capsule shaped tablets debossed with “2” on one side and “U” on the other side and supplied as follows:

NDC 68180-455-01      Bottles of 90  
NDC 68180-455-02      Bottles of 1000

**10 mg Tablets**

Amlodipine Besylate Tablets USP, 10 mg – (amlodipine besylate equivalent to 10 mg of amlodipine per tablet) are supplied as white to off white round, flat faced, beveled edged tablet debossed with “L” on one side and “32” on the other side and supplied as follows:

NDC 68180-721-09      Bottles of 90  
NDC 68180-721-03      Bottles of 1000

## 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

Rats and mice treated with amlodipine maleate in the diet for up to two years, at concentrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 amlodipine mg/kg/day, showed no evidence of a carcinogenic effect of the drug. For the mouse, the highest dose was, on a mg/m<sup>2</sup> basis, similar to the maximum recommended human dose of 10 mg amlodipine/day.<sup>3</sup> For the rat, the highest dose was, on a mg/m<sup>2</sup> basis, about twice the maximum recommended human dose.<sup>3</sup>

Mutagenicity studies conducted with amlodipine maleate revealed no drug related effects at either the gene or chromosome level.

There was no effect on the fertility of rats treated orally with amlodipine maleate (males for 64 days and females for 14 days prior to mating) at doses up to 10 mg amlodipine/kg/day (8 times the maximum recommended human dose<sup>3</sup> of 10 mg/day on a mg/m<sup>2</sup> basis).

<sup>3</sup> Based on patient weight of 50 kg

## Section 12: Ecological Information

### Section 12: Ecological Information

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

### Section 14: Transport Information

#### 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

## Section 15: Regulatory Information

### Section 15: Regulatory Information

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.