# LUPIN LIMITED

# SAFETY DATA SHEET

## Section 1: Identification

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Material

Manufacturer

Distributor

#### Sildenafil Tablets USP 25 mg, 50 mg and 100 mg

Lupin Limited Nagpur 441 108 INDIA

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	Consistent with its known effects on the nitric oxide/cGMP pathway, sildenafil tablets was shown to potentiate the hypotensive effects of nitrates, and its administration to patients who are using nitric oxide donors such as organic nitrates or organic nitrites in any form either regularly and/or intermittently is therefore contraindicated.		
	After patients have taken sildenafil tablets, it is unknown when nitrates, if necessary, can be safely administered. Although plasma levels of sildenafil at 24 hours post dose are much lower than at peak concentration, it is unknown whether nitrates can be safely co-administered at this time point.		
	Sildenafil tablets are contraindicated in patients with a known hypersensitivity to sildenafil, as contained in sildenafil tablets and REVATIO, or any component of the tablet. Hypersensitivity reactions have been reported, including rash and urticaria.		
	Do not use sildenafil tablets in patients who are using a GC stimulator, such as riociguat. PDE5 inhibitors, including sildenafil tablets, may potentiate the hypotensive effects of GC stimulators.		
Environment	No information is available about the potential of this product to produce adverse environmental effects.		

Section 2: C	ownosition (Information on Ingradiants			
Section 3: Composition/Information on Ingredients				
Section 3, Composition/information o	n ingredients			
Ingredients	CAS			
Sildenafil Citrate USP	171599-83-0			
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.			
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 PROFESSIONAL	LS			
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 studies with healthy volunteers of single doses up to 800 mg, adverse reactions were similar to those seen at lower doses but incidence rates and severities were increased.			
	In cases of overdose, standard supportive measures should be adopted as required. Renal dialysis is not expected to accelerate clearance as sildenafil is highly bound to plasma proteins and it is not eliminated in the urine.			
See	ction 5: Fire-Fighting Measures			
Section 5, Fire-fighting measures				
Fire and Explosion Hazards	Fine particles (such as dust and mists) may fuel fires/explosions.			
Extinguishing Media	Extinguish fires with CO <sub>2</sub> , extinguishing powder, foam, or water.			
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	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 spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.			
Section 7: Handling and Storage				
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Handling	Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment. Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of			

Storage

Store at 20°C to 25°C (68°F to 77°F), excursions permitted between 15°C to 30°C (between 59°F to 86°F). [See USP controlled room temperature]. Dispense in tight (USP), Child resistant containers.

process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

## 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** 

Sildenafil tablets USP, 25 mg are available as white to off white, round, film coated tablets debossed 'V05' on one side and 'LU' on other side, in bottle of 30 (NDC-70748-131-06)

Sildenafil tablets USP, 50 mg are available as white to off white, round, film coated tablets debossed 'V06' on one side and 'LU' on other side, in bottle of 30 (NDC-70748-132-06) and 100 (NDC-70748-132-01)

Sildenafil tablets USP, 100 mg are available as white to off white, round, film coated tablets debossed 'V07'on one side and 'LU' on other side, in bottle of 30 (NDC-70748-133-06) and 100 (NDC-70748-133-01). 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 Sildenafil was not carcinogenic when administered to rats for 24 months at a dose resulting in total systemic drug exposure (AUCs) for unbound sildenafil and its major metabolite of 20- and 38- times, for male and female rats, respectively, the exposures observed in human males given the Maximum Recommended Human Dose (MRHD) of 100 mg. Sildenafil was not carcinogenic when administered to mice for 18 to 21 months at dosages up to the Maximum Tolerated Dose (MTD) of 10 mg/kg/day, approximately 0.4 times the MRHD on a mg/m<sup>2</sup> basis in a 50 kg subject. Sildenafil was negative in in vitro bacterial and Chinese hamster ovary cell assays to detect mutagenicity, and in vitro human lymphocytes and in vivo mouse micronucleus assays to detect clastogenicity. There was no impairment of fertility in rats given sildenafil up to 60 mg/kg/day for 36 days to females and 102 days to males, a dose producing an AUC value of more than 25 times the human male AUC. Section 12: Ecological Information Section 12: Ecological Information No relevant studies identified. Section 13: Disposal Considerations Section 13: Disposal Considerations

# Section 14: Transport Information

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

## 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

SDS : 201/00 Effective Date : 08/03/2019

IATA Packaging Group IATA Label	:	N/A 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.