# **LUPIN LIMITED**

### SAFETY DATA SHEET

### Section 1: Identification

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Μ	aterial	

Manufacturer

Distributor

Memantine Hydrochloride Tablets USP 5 mg and 10 mg

**Lupin Limited** Goa - 403722 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	Memantine hydrochloride tablet is contraindicated in patients with known hypersensitivity to memantine hydrochloride or to any excipients used in the formulation.
	No information is available about the potential of this product to

Environment

# Section 3: Composition/Information on Ingredients

produce adverse environmental effects.

### Section 3, Composition/information on ingredients

Ingredients	CAS	
Memantine Hydrochloride USP	41100-52-1	

	Section 4: First-Aid Measures	
Section 4, First-aid measures		
Ingestion	If conscious, give water to drink and induce vomiting. Do not attem to give any solid or liquid by mouth if the exposed subject unconscious or semi-conscious. Wash out the mouth with wate Obtain medical attention.	
Inhalation	Move individual to fresh air. Obtain medical attention if breathi difficulty occurs. If not breathing, provide artificial respiration assistance.	
Skin Contact	Remove contaminated clothing and flush exposed area with lar amounts of water. Wash all exposed areas of skin with plenty of so and water. Obtain medical attention if skin reaction occurs.	
Eye Contact	Flush eyes with plenty of water. Get medical attention.	
NOTES TO HEALTH PROFE	SSIONALS	
Medical Treatment	Treat according to locally accepted protocols. For additional guidance refer to the current prescribing information or to the local pois control information center. Protect the patient's airway and supp ventilation and perfusion. Meticulously monitor and maintain, with acceptable limits, the patient's vital signs, blood gases, serve electrolytes, etc.	
OVERDOSAGE	Signs and symptoms most often accompanying memanti overdosage in clinical trials and from worldwide marketing experience alone or in combination with other drugs and/or alcohol, inclu agitation, asthenia, bradycardia, confusion, coma, dizziness, EC changes, increased blood pressure, lethargy, loss of consciousnes psychosis, restlessness, slowed movement, somnolence, stup unsteady gait, visual hallucinations, vertigo, vomiting, and weaknes The largest known ingestion of memantine worldwide was 2.0 gran in a patient who took memantine in conjunction with unspecifi antidiabetic medications. The patient experienced coma, diplopia, a agitation, but subsequently recovered. Fatal outcome has been ver rarely reported with memantine, and the relationship to memanti was unclear.	

### 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.
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

# Section 7: Handling and Storage

recovery or disposal.

#### Section 7, Handling and storage

Handling

Storage

Normal room ventilation is expected to be adequate for routine handling of this product. Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to

No special control measures required for the normal handling of this

86°F) [see USP Controlled Room Temperature].

Preserve in tight containers.

# 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.

product.

Section 9: Physical and Chemical Properties				
Section 9, Physical and chemical properties				
Physical Form	<b>5 mg Tablet</b> : Tan coloured, capsule shaped, biconvex, film-coated tablets, debossed with 'LU' on one side and 'W01' on the other side. Bottle of 60 NDC #68180-229-07 10 x 10 Unit Dose NDC #68180-229-13			
	<b>10 mg Tablet</b> : Grey coloured, capsule shaped, biconvex, film-coated tablets, debossed with 'LU' on one side and 'W02' on the other side. Bottle of 60 NDC #68180-230-07 10 x 10 Unit Dose NDC #68180-230-13			
S	Section 10: Stability and Reactivity			
Section 10, Stability and reactivity	y			
Stable under recommended storage	e conditions.			
Se	ection 11: Toxicological Information			
Section 11, Toxicological informa	tion			
Carcinogenesis, Mutagenesis, Im	pairment of Fertility			
	There was no evidence of carcinogenicity in a 113-week oral study in mice at doses up to 40 mg/kg/day (10 times the maximum recommended human dose [MRHD] on a mg/m <sup>2</sup> basis). There was also no evidence of carcinogenicity in rats orally dosed at up to 40 mg/kg/day for 71 weeks followed by 20 mg/kg/day (20 and 10 times the MRHD on a mg/m <sup>2</sup> basis, respectively) through 128 weeks.			
	Memantine produced no evidence of genotoxic potential when evaluated in the <i>in vitro S. typhimurium</i> or <i>E. coli</i> reverse mutation assay, an <i>in vitro</i> chromosomal aberration test in human lymphocytes, an <i>in vivo</i> cytogenetics assay for chromosome damage in rats, and the <i>in vivo</i> mouse micronucleus assay. The results were equivocal in an <i>in vitro</i> gene mutation assay using Chinese hamster V79 cells.			
	No impairment of fertility or reproductive performance was seen in rats administered up to 18 mg/kg/day (9 times the MRHD on a mg/m <sup>2</sup> basis) orally from 14 days prior to mating through gestation and lactation in females, or for 60 days prior to mating in males.			
	Section 12: Ecological Information			
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No relevant studies identified.				
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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 MSDS.