

## MATERIAL SAFETY DATA SHEET

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### PROPRANOLOL HYDROCHLORIDE INJECTION, USP

#### SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: Propranolol Hydrochloride  
Supplier: West-Ward Pharmaceuticals  
401 Industrial Way West  
Eatontown, NJ 07724  
Phone (732 542 1191)  
Fax (732 720 6220)  
  
Technical Phone: (800 631 2174)

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Description	% in final Product
318-98-9	Propranolol Hydrochloride	1mg/mL
7732-18-5	Water for Injection	QS

Category: Anti-hypertensive

#### SECTION 3. HAZARDS IDENTIFICATION, EMERGENCY OVERVIEW

**Route of Entry:** Inhalation, eye/skin contact, or ingestion

**Note:** Propranolol is not significantly dialyzable. In the event of overdosage or exaggerated response, the following measures should be employed:

*Bradycardia* Administer atropine (0.25mg to 1mg); if there is no response to vagal blockade, administer isoproterenol cautiously.

*Cardiac Failure* Digitalization and diuretics.

*Hypotension* Vasopressors eg epinephrine.

*Bronchospasm* Administer isoproterenol and aminophylline.

Chemical List as  
Carcinogen:

NTP: No

IARC: No

OSHA: No

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#### SECTION 4. FIRST AID MEASURES

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- Eyes: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.
- Skin: Remove from source of exposure, wash affected area with soap and water, seek medical attention.
- Inhalation: If difficulty with breathing, remove from exposure, administer oxygen. Seek attention of a physician immediately. When appropriate and trained in CPR, provide artificial respiration.
- Ingestion: If ingestion occurs, flush mouth with water and seek medical attention immediately. Never induce vomiting on an unconscious person

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#### SECTION 5. FIRE AND EXPLOSION DATA

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##### **Fire and explosion Data**

- Closed Cup Flash Point: N/A
- Open Cup Flash Point: N/A
- Fire Point: N/A
- Autoignition: N/A
- Lower Explosion Limit: N/A
- General Hazard: Not expected to support combustion.
- Fire Fighting Instructions: Evacuate personnel to safe area. Water spray, dry chemical, foam or carbon dioxide. If possible contain and collect water used.
- Fire Fighting Equipment: Firefighters should wear protective clothing and self-contained breathing equipment.
- Hazardous Combustion Products: Thermal decomposition may yield toxic smoke containing Carbon dioxide, Carbon Monoxide and Nitrogen oxide.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Clean Up: Wear recommended personal protective equipment. Use an inert absorbent material to clean affected area, and place in a properly labelled container for recovery or disposal. Prevent entry into waterways, sewers, drainage systems and poorly ventilated areas. No specific decontamination or detoxification procedures have been identified for this product. Dispose of materials according to the applicable federal, state and/ or local regulations.

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#### SECTION 7. HANDLING AND STORAGE

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- General Handling: When handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with product, A dust/mist respirator (N95) may be necessary.
- Storage Conditions: Store between 20° - 25°C (65° - 77°F). Protect from light, heat and freezing.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Engineering Controls: N/A

### **Personal Protective Equipment**

Eye protection: Safety glasses.

Hand protection: Latex gloves.

Respiratory Protection: If aerosols are generated, a disposable dust/ mist respirator (N95).

Skin Protection: Labcoat.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical Form/ Appearance: Clear solution

Boiling Point/ Boiling Range: Approx to Water.

Melting Point/ Melting Range: 165°C.

Freezing Point: Approx to Water.

Vapor Pressure: N/A.

Relative Vapor Density: N/A.

Percent Volatiles: N/A.

pH: 2.8-4.0

Molecular Weight: 295.80

Solvent Solubility: Soluble in water

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## SECTION 10. STABILITY AND REACTIVITY DATA.

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Stability: Stable under most conditions

Conditions to Avoid: Avoid freezing and excessive heat.

Hazardous Polymerization: N/A

Hazardous Decomposition or By-products: May include Carbon and Nitrogen Oxides.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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Acute Toxicity:

Compound	Type	Route	Species	Dosage
Propranolol Hydrochloride	LD50	Oral	Rat	466 mg/kg
	LD50	IP	Rat	76 mg/kg
	LD50	SC	Rat	115 mg/kg
	LD50	IV	Rat	21 mg/kg
	LD50	Oral	Mouse	320 mg/kg
	LD50	IP	Mouse	80 mg/kg
	LD50	SC	Mouse	208 mg/kg
	LD50	IV	Mouse	18 mg/kg
	LD50	Oral	Rabbit	600 mg/kg
	LD50	IV	Rabbit	12.5 mg/m <sup>3</sup>

Other: Additional reproductive health data is available from the National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS)

Exposure to propranolol and other beta-adrenergic blockade drugs may mask signs and symptoms of acute hypoglycemia in labile insulin-dependent diabetics. There may be difficulty adjusting insulin dosage. Similarly may mask clinical signs of hyperthyroidism and interfere with thyroid function tests.

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#### SECTION 12. ECOLOGICAL INFORMATION

Information is currently not available on the environmental impact of Propranolol. Handle in a manner to prevent spills or release to the environment.

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#### SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of by incineration at an approved /permitted incinerator. Review local, state, and federal regulations for your regulatory area.

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#### SECTION 14. TRANSPORT INFORMATION

**UN/NA Number:** N/A

**US DOT Hazard Class:** N/A

**Proper Shipping Name:** N/A

**Shipping Label:** N/A

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#### SECTION 15. REGULATORY INFORMATION

**U.S. Regulatory Information:** not regulated.

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#### SECTION 16. OTHER INFORMATION

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