



## MATERIAL SAFETY DATA SHEET

**Product Name: Naloxone Hydrochloride Injection, USP**

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Manufacturer Name And Address** Hospira, Inc.  
275 North Field Drive  
Lake Forest, Illinois 60045  
USA

**Emergency Telephone Hospira, Inc.** CHEMTREC: 800 424-9300  
224 212-2055

**Product Name** Naloxone Hydrochloride Injection, USP

**Synonyms** None

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient Name** Naloxone Hydrochloride  
**Chemical Formula**  $C_{19}H_{22}ClNO_4$

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Naloxone Hydrochloride	0.04	357-08-4	QD2275000
Sodium Chloride	0.9	7647-14-5	VZ4725000
Water	99	7732-18-5	ZC0110000

### 3. HAZARD INFORMATION

**Emergency Overview** In clinical use, this material is used to reverse the effects of narcotic overdose. Possible target organs include the nervous system and cardiovascular system.

**Occupational Exposure Potential** Information on the absorption of this compound via ingestion, inhalation or skin contact is not available. Avoid liquid aerosol generation and skin contact.

**Signs and Symptoms** No signs or symptoms from occupational exposure are known. Clinical data suggest the following: drowsiness, altered blood pressure, cardiac changes, edema, increased blood pressure, memory lapse, numbness, sweating, nausea, gastrointestinal upset, mood changes.

**Medical Conditions Aggravated by Exposure** Hypersensitivity to the material and/or similar materials. Pre-existing ailments in the following organs: nervous system, cardiovascular system.

## Product Name: Naloxone Hydrochloride Injection, USP

### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
<b>Skin Contact:</b>	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
<b>Inhalation:</b>	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic / supportive care as necessary.
<b>Ingestion:</b>	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic / supportive care as necessary.

### 5. FIRE FIGHTING MEASURES

<b>Flammability:</b>	Non-flammable
<b>Fire &amp; Explosion Hazard:</b>	None
<b>Extinguishing Media:</b>	Use extinguishing media appropriate for primary cause of fire.
<b>Special Fire Fighting Procedures</b>	No special provisions required beyond normal fire fighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spill Cleanup and Disposal</b>	Absorb with suitable material and clean affected area with soap and water. Dispose of materials according to the applicable federal, state, or local regulations.
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### 7. HANDLING AND STORAGE

<b>Handling</b>	Protect from light by retaining in carton until contents have been used.
<b>Storage</b>	No special storage required for hazard control. For product protection store at controlled room temperature of 15-30°C (59-86°F).
<b>Special Precautions</b>	Protect from freezing, light and extreme heat.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Component	Exposure limits		
	OSHA-PEL	ACGIH-TLV	Hospira EEL
Naloxone Hydrochloride	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: 1 mg/m <sup>3</sup> STEL: Not Established
Sodium Chloride	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: Not Established STEL: Not Established

Notes: OSHA PEL: US Occupational Safety and Health Administration – Permissible Exposure Limit  
ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value.  
EEL: Employee Exposure Limit.  
TWA: 8 hour Time Weighted Average.  
STEL: 15-minute Short Term Exposure Limit.

## Product Name: Naloxone Hydrochloride Injection, USP

<b>Respiratory Protection</b>	Respiratory protection is not needed during normal product use.
<b>Skin Protection</b>	If solution contact with unprotected skin is likely, use of impervious gloves is a prudent practice.
<b>Eye Protection</b>	Eye protection is not required during expected product use conditions but may be warranted should a splash potential exist.
<b>Engineering Controls</b>	Engineering controls are not needed during normal product use conditions.

### 9. PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance/Physical State</b>	Clear liquid
<b>Odor</b>	None
<b>Boiling Point</b>	Approximately that of water (100 °C, 212 °F).
<b>Freezing Point</b>	Approximately that of water (0 °C, 32 °F).
<b>Vapor Pressure</b>	Approximately that of water (17.5 mm Hg at 20 °C).
<b>Vapor Density (Air=1)</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Bulk Density</b>	Not Determined
<b>Specific Gravity</b>	Approximately that of water (1.0).
<b>Solubility</b>	Water
<b>pH</b>	3.0 – 4.5

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under standard use and storage conditions.
<b>Incompatibilities</b>	Narcotics
<b>Hazardous Decomposition Products</b>	Toxic fumes of nitrogen oxides and HCl.
<b>Hazardous Polymerization</b>	Not Determined.

### 11. TOXICOLOGICAL INFORMATION:

#### Acute Toxicity – Oral:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Naloxone Hydrochloride	100	LD50	1000	mg/kg	Rats, Mice

LD50: Dosage needed to produce 50% mortality.

Product contains approximately 0.04% Naloxone Hydrochloride.

<b>Mutagenicity</b>	Not Determined
<b>Target Organ Effects</b>	In clinical use target organ effects include nervous system and cardiovascular system.

### 12. ECOLOGICAL INFORMATION:

<b>Aquatic Toxicity</b>	Not Available
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**13. DISPOSAL CONSIDERATIONS:**

**Waste Disposal** Disposal should be performed in accordance with the federal, state or local regulatory requirements.

**Container Handling and Disposal** Dispose of container and unused contents in accordance with federal, state, and local regulations.

**14. TRANSPORTATION INFORMATION**

**DOT** Not Regulated

Notes: DOT - US Department of Transportation Regulations

**15. REGULATORY INFORMATION**

**TSCA Status** Not Regulated

**CERCLA Status** Not Regulated

**SARA Status** Not Regulated

**RCRA Status** Not Regulated

**PROP 65 (Calif.)** Not Regulated

Notes: TSCA Toxic Substance Control Act  
CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act  
SARA Superfund Amendments and Reauthorization Act  
RCRA US EPA, Resource Conservation and Recovery Act  
Prop 65, California Proposition 65

**16. OTHER INFORMATION:**

**MSDS Coordinator** Global Occupational Toxicology

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