



## MATERIAL SAFETY DATA SHEET

**Product Name: Tetracaine Hydrochloride, 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** Tetracaine Hydrochloride, USP

**Synonyms** Pontocaine, Niphanoid<sup>®</sup>

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient Name** Tetracaine Hydrochloride  
**Chemical Formula** C<sub>15</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>2</sub>

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Tetracaine Hydrochloride	1 - 2	136-47-0	DG4900000
Water	98 - 99	7732-18-5	ZC0110000

Note: Tetracaine Hydrochloride is also supplied as an instantly soluble, extremely fine, white powder. In this form the percentage of Tetracaine Hydrochloride is approximately 100.

### 3. HAZARD INFORMATION

**Emergency Overview** In clinical use, this material is used to produce local anesthesia (numbness). Possible target organs include the nerves, central nervous system, respiratory system, eyes, cardiovascular system and possibly the skin.

**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: numbness, restlessness, anxiety, dizziness, tinnitus, blurred vision, tremors, convulsions, drowsiness, hypotension, bradycardia, ventricular arrhythmias, cardiac arrest and respiratory arrest.

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

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**4. FIRST AID MEASURES**

**Eye Contact:** 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.

**Skin Contact:** 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.

**Inhalation:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic / supportive care as necessary.

**Ingestion:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic / supportive care as necessary.

**5. FIRE FIGHTING MEASURES**

**Flammability:** Non-flammable

**Fire & Explosion Hazard:** None

**Extinguishing Media:** Use extinguishing media appropriate for primary cause of fire.

**Special Fire Fighting Procedures** 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**

**Spill Cleanup and Disposal** Absorb with suitable material and clean affected area with soap and water. Dispose of materials according to the applicable federal, state, or local regulations.

**7. HANDLING AND STORAGE**

**Handling** Protect from light by retaining in carton until contents have been used.

**Storage** No special storage required for hazard control. For product protection store at controlled room temperature of 2-8°C.

**Special Precautions** Protect from freezing, light and extreme heat.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Component	Exposure limits		
	OSHA-PEL	ACGIH-TLV	Hospira EEL
Tetracaine Hydrochloride	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: 50 mcg/m3 STEL: 500 mcg/m3

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.

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<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>	Tetracaine Hydrochloride Injection: clear, colorless solution Topical: Blue liquid Niphanoid: fine white crystalline powder or cake
<b>Odor</b>	Odorless
<b>Boiling Point</b>	Not Determined
<b>Freezing Point</b>	Not Determined
<b>Vapor Pressure</b>	Not Determined
<b>Vapor Density (Air=1)</b>	Not Determined
<b>Evaporation Rate</b>	Not Applicable
<b>Bulk Density</b>	0.999-1.022 g/mL
<b>Specific Gravity</b>	Not Determined
<b>Solubility</b>	Water, saline and dextrose solutions
<b>pH</b>	3.2-6.0

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION:

#### Acute Toxicity – Oral:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Tetracaine Hydrochloride	100	LD50	160	mg/kg	Mice

LD50: Dosage needed to produce 50% mortality.

#### Acute Toxicity – Inhalation:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Tetracaine Hydrochloride	100	LC50	4-6.5	mg/kg	Rats Rabbits

LC50 is the concentration in air that produces 50% mortality.

Note: Tetracaine Hydrochloride is supplied as a liquid for injection (1%) and as a topical solution (2%). It is also supplied as an instantly soluble, white powder. In this form the percentage of Tetracaine Hydrochloride is approximately 100.

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**Mutagenicity** Not Determined

**Target Organ Effects** In clinical use target organ effects include nerves, central nervous system, respiratory system, eyes, cardiovascular system and possibly the skin.

**12. ECOLOGICAL INFORMATION:**

**Aquatic Toxicity** Not Available

**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  
**Date Prepared** September 15, 2005  
**Date Revised** October 21, 2008

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