



MATERIAL SAFETY DATA SHEET

Product Name: Lidocaine Hydrochloride and Epinephrine 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
Lidocaine Hydrochloride and Epinephrine Injection, USP

Synonyms
None

2. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient Name
Chemical Formula**
Lidocaine Hydrochloride
 $C_{14}H_{23}ClN_2O$

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Lidocaine Hydrochloride	1.5	73-78-9	AN7600000
Epinephrine	0.0005	51-43-4	DO2625000
Water	98	7732-18-5	ZC0110000

3. HAZARD INFORMATION

Emergency Overview

In clinical use, this material is used to numb body tissues. Lidocaine is toxic by ingestion and besides its numbing effects, can affect the central nervous system, respiratory system, and cardiovascular system. Epinephrine is a material that stimulates the sympathetic nervous system and heart. It is a potent drug, is highly toxic by ingestion and skin absorption, and can produce adverse effects to the eyes, nervous system, cardiovascular system and respiratory 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: nervousness, sweating, fearfulness, anxiety, palpitations, tenseness, restlessness, headache, tremor, dizziness, lightheadedness, tachycardia, nausea, vomiting, respiratory difficulty, fever, chills, dilated pupils, blurred vision and cyanosis. Can also cause electrocardiogram change, disturbed cardiac rhythm, hypertension, metabolic acidosis, and cardiac injury. Lidocaine

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	Exposure limits	
	OSHA-PEL	ACGIH-TLV
Lidocaine Hydrochloride	8 hr TWA: Not Established	8 hr TWA: Not Established
Epinephrine	8 hr TWA: Not Established	8 hr TWA: 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.

Respiratory Protection

Respiratory protection is not needed during normal product use.

Skin Protection

If solution contact with unprotected skin is likely, use of impervious gloves is a prudent practice.

Eye Protection

Eye protection is not required during expected product use conditions but may be warranted should a splash potential exist.

Engineering Controls

Engineering controls are not needed during normal product use conditions.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical State

Clear liquid

Odor

Not Applicable

Boiling Point

Approximately that of water (100 °C, 212 °F).

Freezing Point

Approximately that of water (0 °C, 32 °F).

Vapor Pressure

Not Applicable

Vapor Density (Air=1)

Not Applicable

Evaporation Rate

Not Applicable

Bulk Density

Not Determined

Specific Gravity

1.006-1.007

Solubility

Aqueous solution

3.3 – 5.5

pH

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under standard use and storage conditions.

Incompatibilities

Not Determined

Hazardous Decomposition Products

Toxic fumes of nitrogen oxides and HCl

Hazardous Polymerization

Not Determined.