

MATERIAL SAFETY DATA SHEET

Product Name: Lidocaine Hydrochloride and Epinephrine Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer Name Hospira, Inc.

275 North Field Drive And Address

Lake Forest, Illinois 60045

USA

Hospira, formerly the Hospital Products Division of Abbott Laboratories, was Note:

created as an independent company in May 2004.

Emergency Telephone CHEMTREC: 800 424-9300

Hospira, Inc. 224 212-2055

Product Name Lidocaine Hydrochloride and Epinephrine Injection, USP

Synonyms None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name Lidocaine Hydrochloride

Chemical Formula C₁₄H₂₃ClN₂O

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

Information on the absorption of this compound via ingestion, **Potential**

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

Product Name: Lidocaine Hydrochloride and Epinephrine Injection, USP

can produce numbness, lightheadedness, drowsiness, apprehension, euphoria, tinnitus, altered vision, vomiting, sensation of hot-cold-numbness, twitching, tremors, dizziness, restlessness, loss of hearing, breathing/swallowing difficulty, stupor, bradycardia, convulsions, unconsciousness, respiratory arrest,

stupor, oranycardia, convuisions, unconsciousness, re

hypotension and cardiovascular collapse.

Medical Conditions Aggravated by Exposure Old age, cardiovascular diseases, hypertension, diabetes, hyperthyroidism, respiratory disease, labor, central nervous system disease and ocular disease/glaucoma. Hypersensitivity to sypathomimetic amines and amide-type local anesthetics.

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 No special handling required.

Storage No special storage required for hazard control. For product protection store at

controlled room temperature of 15-30°C (59-86°F).

Special Precautions Protect from freezing, light and extreme heat.

Product Name: Lidocaine Hydrochloride and Epinephrine Injection, USP

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

		Exposure limits		
Component	OSHA-PEL	ACGIH-TLV	Hospira EEL	
Lidocaine Hydrochloride	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: 500 mcg/m3	
	Established	Established	STEL: 5 mg/m3	
Epinephrine	8 hr TWA: Not	8 hr TWA: Not	8 hr TWA: 1 mcg/m3	
	Established	Established	STEL: 20 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.

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 Clear liquid

State

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)
Evaporation Rate
Not Applicable
Not Applicable
Not Determined
Specific Gravity
1.006-1.007
Solubility
Aqueous solution

pH 3.3-5.5

10. STABILITY AND REACTIVITY

Chemical Stability Stable under standard use and storage conditions.

Incompatibilities Not Determined

Hazardous Toxic fumes of nitrogen oxides and HCl

Decomposition

Products

Hazardous Not Determined.

Polymerization

Product Name: Lidocaine Hydrochloride and Epinephrine Injection, USP

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity - Oral:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Lidocaine Hydrochloride	100	LD50	317	mg/kg	Rats
			220		Mice
Epinephrine	100	100 LD50	24-50	mg/kg	Mice
	100				Rats

LD50 is the dosage producing 50% mortality.

Product contains approximately 1.5% Licocaine Hydrochloride and less than 0.001% Epinephrine.

Acute Toxicity – Dermal:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Epinephrine	100	LD50(sc)	62	mg/kg	Rats

LD50 (sc) is the value for skin contact

Mutagenicity Not Determined

Target Organ Effects In clinical use target organ effects include central nervous system, eyes,

respiratory system, cardiovascular system.

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 Dispose of container and unused contents in accordance with federal, state,

and Disposal 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:

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