



MATERIAL SAFETY DATA SHEET

Product Name: Dopamine 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 Dopamine Hydrochloride Injection

Synonyms None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name Dopamine Hydrochloride Injection
Chemical Formula $C_8H_{12}ClNO_2$

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Dopamine Hydrochloride	0.08-0.32	62-31-7	UX1092000
Dextrose	5	50-99-7	LZ6600000
Water	95	7732-18-5	ZC0110000

3. HAZARD INFORMATION

Emergency Overview In clinical use, this material is used to treat shock and other emergencies. The active ingredient stimulates the sympathetic nervous system increasing cardiac output. It is a potent drug. Possible target organs include the cardiovascular system and in the rat, the fetus.

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: cardiac changes, nausea, vomiting, anginal pain, breathing difficulty, headaches, decreased blood pressure, dilated pupils.

Medical Conditions Aggravated by Exposure Pheochromocytoma, uncorrected tachyarrhythmia or ventricular arrhythmia, concurrent monoamine oxidase inhibitor therapy, hypovolemia and cardiovascular diseases. Hypersensitivity to metabisulfites.

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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 liquid 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

Handling	No special handling required.
Storage	No special storage required for hazard control. For product protection store at room temperature of 25°C (77°F).
Special Precautions	Protect from freezing and extreme heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	Exposure limits		
	OSHA-PEL	ACGIH-TLV	Hospira EEL
Dopamine Hydrochloride	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: Not Established STEL: 100 mcg/m3
Dextrose	8 hr TWA: Not Established	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.

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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, colorless to light yellow solution
Odor	None
Boiling Point	Approximately that of water (100 °C, 212 °F).
Freezing Point	Approximately that of water (0 °C, 32 °F).
Vapor Pressure	Approximately that of water (17.5 mm Hg at 20 °C).
Vapor Density (Air=1)	Not Applicable
Evaporation Rate	Not Applicable
Bulk Density	Not Determined
Specific Gravity	Approximately that of water (1.0).
Solubility	Water soluble
pH	2.5 – 5.0

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under standard use and storage conditions.
Incompatibilities	Alkalies (including sodium bicarbonate), oxidizing agents or iron salts.
Hazardous Decomposition Products	Toxic fumes of HCl and oxides of nitrogen
Hazardous Polymerization	Not Determined.

11. TOXICOLOGICAL INFORMATION:**Acute Toxicity - Oral**

Ingredient(s)	Percent	Test Type	Value	Units	Species
Dopamine Hydrochloride	100	LD50	2859 4361	mg/kg	Rats Mice
Dextrose	100	LD50	8000 25,800	mg/kg	Dogs Rats

LD50: Dosage that produces 50% mortality.
Product contains less than 1% Dopamine Hydrochloride.

Mutagenicity	Not Determined
Target Organ Effects	In clinical use target organ effects include the sympathetic nervous system, and cardiovascular system. Dopamine is a drug that stimulates the sympathetic nervous system increasing cardiac output. In repeat dose studies in animals, dopamine hydrochloride has produced transient EKG changes.

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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	Dopamine Hydrochloride is listed on the TSCA inventory.
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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