

MATERIAL SAFETY DATA SHEET

Product Name: Diphenhydramine Hydrochloride Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer Name Hospira, Inc.

And Address 275 North Field Drive

Lake Forest, Illinois 60045

USA

Emergency Telephone CHEMTREC: 800 424-9300

Hospira, Inc. 224 212-2055

Product Name Diphenhydramine Hydrochloride Injection, USP

Synonyms Benadryl

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name Diphenhydramine Hydrochloride

Chemical Formula C₁₇H₂₂CINO

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Diphenhydramine Hydrochloride	5	147-24-0	KR7000000
Water	95	7732-18-5	ZC0110000

3. HAZARD INFORMATION

Emergency Overview Diphenhydramine hydrochloride is an antihistamine used for relief of symptoms

> associated with allergies or colds, and for the treatment of symptoms associated with motion sickness. Toxic by ingestion. May cause nervous system effects.

Occupational Exposure Information from occupational exposure is not available.

Signs and Symptoms The most frequently observed side effects include sedation, sleepiness, breathing

difficulty, disturbed coordination, hypotension, gastrointestinal upset and

thickened bronchial secretions.

Medical Conditions

Clinical experience suggests narrow-angle glaucoma, peptic ulcers and other Aggravated by Exposure gastrointestinal disorders, bladder obstruction, prostatic hypertrophy, asthma,

hyperthyroid, cardiovascular disease, hypertension and concurrent use of central

nervous system depressants or monoamine oxidase inhibitor therapy.

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.

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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 None

Hazard:

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

Special Fire FightingNo special provisions required beyond normal fire fighting equipment such

Procedures as flame and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Absorb with suitable material and dispose of materials according to 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

20 - 25° C (68 - 77° F).

Special Precautions No special precautions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

	Exposure limits			
Component	OSHA-PEL	ACGIH-TLV	Hospira EEL	
Diphenhydramine Hydrochloride	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: 100 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 contact with unprotected skin is likely, glove use is prudent practice.

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Eye Protection Eye protection is not required during expected product use conditions but may

be warranted if eye contact is likely.

Engineering Controls Engineering controls are not needed during normal product use conditions.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical Clear liquid

State

Odor Not Determined

Boiling Point Approximately that of water $(100^{\circ} \text{ C}, 212^{\circ} \text{ F})$ **Freezing Point** Approximately that of water $(0^{\circ} \text{ C}, 32^{\circ} \text{ F})$

Vapor Pressure Approximately that of water (17.5 mm Hg at 20° C)

Vapor Density (Air=1)Not ApplicableEvaporation RateNot ApplicableBulk DensityNot ApplicableDensity1.005 g/mlSolubilityNot DeterminedpH5.7 - 6.5

10. STABILITY AND REACTIVITY

Chemical Stability Stable under standard use and storage conditions.

Incompatibilities May react with strong oxidizing agents.

Hazardous

Decomposition Products

May emit toxic smoke.

Hazardous Polymerization Will not occur.

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11. TOXICOLOGICAL INFORMATION:

Acute Toxicity - Oral:

Ingredient(s)	Percent	Test Type	Value	Units	Species
Diphenhydramine HCL	100	LD50	114-500	mg/kg	Rats, mice, and guinea pigs

LD50 is the dosage producing 50% mortality.

Product contains approximately 5% Diphenhydramine.

Mutagenicity Not Determined

Reproductive Effects No effects identified.

Target Organ Effects Possible target organs include skin, eyes, and the central nervous,

gastrointestinal, and cardiovascular systems. In animal studies, there is limited

evidence of fetotoxicity and possible cleft palate formation.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity 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 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

CERCLA Status

Not Regulated
Not Regulated
Not Regulated
RCRA Status

Not Regulated
Not Regulated
Not Regulated
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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