



MATERIAL SAFETY DATA SHEET

Epinephrine Injection, USP

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SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: Epinephrine Injection, USP
Supplier: West-Ward Pharmaceuticals
401 Industrial Way West
Eatontown, NJ 07724
Phone (732 542 1191)
Fax (732 720 6220)

Technical Phone: (800 631 2174)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Description	% in final Product
51-43-3	Epinephrine Hydrochloride	0.1
7732-18-5	Water for Injection	>98.0
7647-14-5	Sodium Chloride	0.1
57-15-8	Chlorobutanol	0.5
7681-57-4	Sodium Metabisulfite	0.1

Category: CNS Stimulant

SECTION 3. HAZARDS IDENTIFICATION, EMERGENCY OVERVIEW

Route of Entry: Inhalation, eye/skin contact, or ingestion

Very hazardous in case of eye contact, irritation will occur. Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation. Severe over-exposure can result in death. Clinical data also suggests nervousness, headache, tremor, dizziness, lightheadness, tachycardia, nausea, vomiting, respiratory difficulty, fever, chills, dilated pupils, blurred vision, cyanosis, electrocardiogram change, disturbed cardiac rhythm, hypertension, metabolic acidosis and cardiac injury.

Inflammation of the eye is characterized by redness, watering and itching.

May cause malformation in the fetus.

Chemical List as
Carcinogen:

NTP: No

IARC: No

OSHA: No



SECTION 4. FIRST AID MEASURES

- Eyes: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.
- Skin: Remove from source of exposure, wash affected area with soap and water, seek medical attention.
- Inhalation: Remove to fresh air, seek prompt medical attention.
- Ingestion: If ingestion occurs, flush mouth with water and seek medical attention immediately. Never induce vomiting.

SECTION 5. FIRE AND EXPLOSION DATA

Fire and explosion Data

- Closed Cup Flash Point: N/A
- Open Cup Flash Point: N/A
- Fire Point: N/A
- Autoignition: N/A
- Lower Explosion Limit: N/A
- General Hazard: Not expected to support combustion.
- Fire Fighting Instructions: Evacuate personnel to safe area. Water spray, dry chemical, CO₂, or foam. If possible contain and collect water used.
- Fire Fighting Equipment: Firefighters should wear protective clothing and self-contained breathing equipment.
- Hazardous Combustion Products: Will not occur.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Clean Up: Wear recommended personal protective equipment. Use an inert absorbent material to clean affected area, and place in a properly labelled container for recovery or disposal. Prevent entry into waterways, sewers, drainage systems and poorly ventilated areas. For disposal mix with combustible material and burn.
Dispose of materials according to the applicable federal, state and/ or local regulations.

SECTION 7. HANDLING AND STORAGE

- General Handling: When handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with product.
- Storage Conditions: Store between 15° - 30°C (59° - 86°F). Protect from light, freezing and excessive heat.



WEST-WARD

PHARMACEUTICALS

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: N/A

Personal Protective Equipment

Eye protection: Not required during normal use and handling.

Hand protection: Impervious gloves are recommended.

Respiratory Protection: Not required during normal use and handling.

Skin Protection: Not required during normal use and handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form/ Appearance: Clear liquid Solution

Boiling Point/ Boiling Range: Approximate to Water.

Melting Point/ Melting Range: N/A

Freezing Point: Approximate to Water.

Vapor Pressure: Approximate to Water.

Relative Vapor Density: Approximate to Water.

Percent Volatiles: N/A

pH: 2.2-5.0

Molecular Weight: 219.69

Solvent Solubility: Aqueous Solution

SECTION 10. STABILITY AND REACTIVITY DATA.

Stability: Stable.

Conditions to Avoid: Exposure to light.

Hazardous Polymerization: N/A

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Compound	Type	Route	Species	Dosage
Ondansetron Hydrochloride	LD50	Skin	Rat	62 mg/kg
	LD50	IV	Rat	980 µg/kg
	LD50	IM	Rat	3500 mg/kg
	LD50	Oral	Mouse	50 mg/kg
	LD50	IP	Mouse	4 mg/kg
	LD50	SC	Mouse	2790 µg/kg
	LD50	IV	Mouse	217 µg/kg

Other: Has produced mutagenesis in some bioassays.



SECTION 12. ECOLOGICAL INFORMATION

Information is currently not available on the environmental impact of Epinephrine. Handle in a manner to prevent spills or releases to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of by incineration at an approved /permitted incinerator. Review local, state, and federal regulations for your regulatory area.

SECTION 14. TRANSPORT INFORMATION

UN/NA Number: N/A

US DOT Hazard Class: N/A

Proper Shipping Name: N/A

Shipping Label: N/A

SECTION 15. REGULATORY INFORMATION

U.S. Regulatory Information : not regulated.

RCRA status: listed as 40CFR Part 261.33(e), Waste Code P042.

SECTION 16. OTHER INFORMATION

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