



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

1501 East Woodfield Road **Emergency Telephone** **(800) 551-7176**
Suite 300 East
Schaumburg, IL 60173
(847) 969-2700

Product Identifier: Mesna Injection
Chemical Name: Mesna
Category: Detoxifying Agent

SECTION 2 - COMPOSITION

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Mesna	19767-45-4	100 mg/mL
Edetate Disodium	139-33-3	0.25 mg/mL
Benzyl Alcohol	100-51-6	10.4 mg/mL

SECTION 3 - HAZARDS IDENTIFICATION

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

**Chemical Listing as
Carcinogen**

NTP: No

IARC: No

OSHA: No

Note: NA

SECTION 4 - EMERGENCY & FIRST AID MEASURES

Eyes: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing immediately. Flush area with water for at least 15 minutes. Wash exposed area with soap and water. Seek medical attention.

Inhalation: Move exposed subject to fresh air immediately. Give artificial respiration and cardiopulmonary resuscitation (CPR) if required. Seek medical attention.

SECTION 4 - EMERGENCY & FIRST AID MEASURES...continued

Ingestion: Do not induce vomiting. Flush mouth out with water immediately. Seek medical attention.

Contact Info: For Adverse Event Information, please call (800) 551-7176 or (847) 969-2700.

SECTION 5 - FIRE FIGHTING MEASURES

Fire and Explosion Data

Closed Cup Flash Point: NE

Open Cup Flash Point: NE

Fire Point: NE

Autoignition: NE

Lower Explosion Limit: NE

Upper Explosion Limit: NE

General Hazard: When heated to decomposition, it emits toxic fumes.

Fire Fighting Instructions: Evacuate personnel. Use water spray, foam, or ABC multi-purpose extinguisher as appropriate for surrounding fire and materials.

Fire Fighting Equipment: Wear self-containing breathing apparatus and protective clothing.

Hazardous Combustion Products: Smoke and toxic fumes of Cl₂

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean-Up: Wear recommended personal protective equipment (See Section 8 - Exposure Controls/Personal Protection). Use absorbent towels or brooms to clean-up spill. Wipe surface area clean with soap and water.

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 the product.

Storage Conditions: Store at controlled room temperature 15°-30°C (59°-86°F).

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General room ventilation is satisfactory. Use local exhaust ventilation if necessary.

Personal Protective Equipment

Eye Protection: Safety glasses or goggles recommended.

Hand Protection: Latex or nitrile gloves recommended.

Respiratory Protection: With satisfactory ventilation, respiratory protection is usually not required.

Skin Protection: Disposable garments if direct skin contact is anticipated.

Exposure Limits:

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Mesna	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Edetate Disodium	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Benzyl Alcohol	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form/
Appearance:** Clear and colorless sterile aqueous solution.

**Boiling Point/Boiling
Range:** Approximately 100°C

**Melting Point/Melting
Range:** 275°C

Freezing Point: NE

Vapor Pressure : NE

Relative Vapor Density: NE

Percent Volatiles: NE

pH: 6.5 - 8.5

Molecular Weight: 164.18

Solvent Solubility: Soluble in water

Note: NA

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: No conditions contributing to instability are known to exist.

Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Signs & Symptoms of Exposure & Overexposure: This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert. Adverse reactions from therapeutic doses include: headache, fatigue, nausea, diarrhea, limb pain, hypotension, and vomiting. Allergic reaction may also occur. Occupational exposure has not been fully investigated.

Medical Conditions Aggravated by Accidental Exposure: Individuals with known hypersensitivity to mesna or any other thiol compounds or pre-existing skin and respiratory conditions.

Acute Toxicity:

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dosage</u>
Mesna	LD ₅₀	Oral	Rat	4440 mg/kg
	LD ₅₀	Oral	Mouse	6102 mg/kg
	LD ₅₀	IV	Rat	1510 mg/kg
	LD ₅₀	IV	Mouse	1720 mg/kg
	LD ₅₀	IP	Rat	1251 mg/kg
	LD ₅₀	IP	Mouse	2005 mg/kg
	LD ₅₀	IM	Rat	2313 mg/kg
	LD ₅₀	IM	Mouse	1200 mg/kg

Other: PREGNANCY CATEGORY B:
Mesna Injection should be given to a pregnant woman only if the benefits clearly outweigh any possible risks.

SECTION 12 - TRANSPORTATION INFORMATION

UN/NA Number: NA

U.S. DOT Hazard Class: NA

Proper Shipping Name: NA

Shipping Label: NA

SECTION 13 - DISPOSAL INFORMATION

Disposal Procedure : Dispose of in accordance with federal, state, and local regulations. Incineration is recommended at an approved facility.

SECTION 14 - OTHER

Key to Abbreviations: ACGIH - American Conference of Governmental Industrial Hygienists
HEPA - High Efficiency Particulate Air
IARC - International Agency for Research on Cancer
NA - Not Applicable
NE - Not Established
NG - Not Given
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OEL - Occupational Exposure Limit
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
PPM - Parts Per Million
QS - Quantity Sufficient
RCRA - Resource Conservation and Recovery Act
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
USP - United States Pharmacopeia

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