



# Material Safety Data Sheet

MSDS Number: 1118056  
Revision date: 11/05/2008  
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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: 1118056  
Product name: Mesna Injection  
Product Codes: NDC 10019-953-01, NDC 10019-953-02, NDC 10019-953-62, NDC 0338-1305-01, NDC 0338-1305-03  
Synonyms: MESNEX (mesna) Injection  
Chemical Family: Prophylactic agent  
Product Type: Regulated Prescription Drug  
Container Information: 1 gram multidose vial  
Product Use: Pharmaceutical.

Supplier:  
BAXTER HEALTHCARE CORPORATION  
DEERFIELD, ILLINOIS 60015  
(800) 422-9837 or (847) 948-4770

Emergency telephone number: PROSAR: USA (888) 990-0996 OUTSIDE USA (615)917-6114  
CHEMTREC: USA (800) 424-9300 OUTSIDE USA (743)741-6089

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	UN Number:	Classification:
Mesna 19767-45-4	10	None	None
Edetate Disodium 139-33-3	<0.5	None	None
Benzyl Alcohol 100-51-6	<1.5	UN1986 (flammable, toxic); UN1987 (alcohol); UN3065 (alcoholic beverages)	Xn;R20/22 S:2-26
Water 7732-18-5	>88	None	None

## 3. HAZARDS IDENTIFICATION

**Emergency overview:** Avoid skin contact. Avoid eye contact.

**Principle routes of exposure:** Absorbed through skin. Eye contact. Ingestion.

**Inhalation:** Inhalation not likely under normal use conditions.

**Ingestion:** Gastrointestinal effects (may include nausea/vomiting, abdominal pain, diarrhea, dry mouth, colic). Nervous system effects (headache, dizziness, light headedness). Respiratory effects (may include shortness of breath, bronchospasms, laryngospasms, respiratory depression).

**Skin contact:** May cause skin irritation.

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### 3. HAZARDS IDENTIFICATION

**Eye contact:** May cause eye irritation.

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**Skin contact:** Wash contaminated skin with soap and water. Get medical attention if irritation develops.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

**Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

**Notes to physician:** See patient package insert in shipping carton for complete information.

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use foam or all purpose dry chemicals to extinguish.
<b>Special protective equipment for firefighters:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Specific methods:</b>	No information available
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not available
<b>Flammable limits in air-lower (%):</b>	Not available
<b>Flammable limits in air-upper (%):</b>	Not available

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

**Environmental precautions:** No information available.

**Methods for cleaning up:** If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

### 7. HANDLING AND STORAGE

**Handling:**  
**Technical measures/precautions:** Wash thoroughly after handling.

**Storage:**  
**Technical measures/Storage conditions:** Keep containers tightly closed in a cool, well-ventilated place. Store at room temperature between 20°C and 25°C (68°F and 77°F).

## 7. HANDLING AND STORAGE

**Incompatible products:** No special restrictions on storage with other products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

Component	OSHA- Time Weighted Average:	OSHA- Short Term Exposure Limit:	OSHA- Ceiling Limits	ACGIH- Time Weighted Average:	ACGIH- Short Term Exposure Limit:	ACGIH- Ceiling Limit Value:
Mesna 19767-45-4	None	None	None	None	None	None
Edetate Disodium 139-33-3	None	None	None	None	None	None
Benzyl Alcohol 100-51-6	None	None	None	None	None	None
Water 7732-18-5	None	None	None	None	None	None

**Engineering measures:** No special containment is required. Good general ventilation should be sufficient to control airborne levels.

### Personal protective equipment:

**Respiratory protection:** Perform exposure monitoring for this product and its components to ensure that employees are not exposed to levels greater than applicable regulatory limits. If exposure levels exceed regulatory limits, implement a respiratory protection program including respiratory protection that is in compliance with OSHA 29 CFR1910.134 (in the US) or equivalent regulation in other regions. Fire fighting requires the use of a self-contained breathing apparatus with full face piece and positive pressure mode.

**Hand protection:** Use chemical resistant, impervious gloves.

**Skin and body protection:** Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

**Eye protection:** Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Appearance:** Aqueous solution  
**Color:** Clear, Colorless.  
**Odor:** Not available.  
**pH:** 7.5-8.5  
**Molecular weight:** Not applicable  
**Boiling point/range:** Not available.  
**Melting point/range:** Not available.  
**Density:** Not available.  
**Vapor pressure:** Not available.  
**Evaporation rate:** Not available.  
**Solubility:** Soluble in water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient (n-octanol/water):	Not available.
Viscosity:	Not available.
% Volatile by Volume:	Not available.

## 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	Not applicable
Hazardous decomposition products:	Not available.
Materials to avoid:	Not available.

## 11. TOXICOLOGICAL INFORMATION

Component	LD50s and LC50s
Mesna 19767-45-4	Oral LD50 Rat = 4440 mg/kg Oral LD50 Mouse = 6102 mg/kg Intravenous LD50 Rat = 1510 mg/kg Intravenous LD50 Mouse = 1720 mg/kg
Edetate Disodium 139-33-3	Oral LD50 Rat = 2 gm/kg Oral LD50 Mouse = 2050 mg/kg
Benzyl Alcohol 100-51-6	Oral LD50 Rat = 1230 mg/kg Oral LD50 Mouse = 1360 mg/kg Dermal LD50 Rabbit = 2 gm/kg
Water 7732-18-5	Oral LD50 Rat: >50000 mg/kg

<b>Acute toxicity:</b>	Gastrointestinal effects (may include nausea/vomiting, abdominal pain, diarrhea, dry mouth, colic). Nervous system effects (headache, dizziness, light headedness). Respiratory effects (may include shortness of breath, bronchospasms, laryngospasms, respiratory depression).
<b>Chronic toxicity:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. No data is available on the product itself.
<b>Mutagenic effects:</b>	Not mutagenic in a standard battery of genetic toxicological tests.
<b>Reproductive toxicity:</b>	Not considered fetotoxic based on animal data.
<b>FDA Pregnancy Category</b>	B

## 12. ECOLOGICAL INFORMATION

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**Environmental properties:**

Component	Ecotoxicity - Water Flea Data	Fish Species Ecotoxicity	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data
Mesna 19767-45-4	None.	None.	None.	None.
Edetate Disodium 139-33-3	None.	159mg/LLC50Lepomis macrochirus96h 320mg/LLC50Poecilia reticulata96h	None.	56mg/LEC50Pseudomonas putida8h
Benzyl Alcohol 100-51-6	23 mg/L EC50 48 h	10mg/LLC50Lepomis macrochirus96h 460mg/LLC50Pimephales promelas96h	35 mg/L 3 h	50mg/LEC50Photobacterium phosphoreum5min 63.7mg/LEC50Photobacterium phosphoreum15min 63.7mg/LEC50Photobacterium phosphoreum5min 71.4mg/LEC50Photobacterium phosphoreum30min
Water 7732-18-5	None.	None.	None.	None.

**Ecotoxicity effects:** No data available

**Bioaccumulation:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Classification:** Not regulated.

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

## 14. TRANSPORT INFORMATION

**DOT:**

DOT shipping name: None  
 UN Number: None  
 DOT Packing Group: None  
 DOT Hazard class: None

**TDG (Canada):**

TDG Proper shipping name: None  
 TDG UN/NA Number: None  
 TDG Packing Group: None  
 TDG Hazard class: None

**ADR/RID:**

ADR Official Transport Name: None  
 ADR Proper shipping name: None  
 ADR UN/NA number: None

## 14. TRANSPORT INFORMATION

ADR Hazard Class: None

**ICAO / IATA:**

IATA Proper shipping name: None  
 IATA UN NUMBER: None  
 IATA Primary Hazard: None  
 IATA Packing group: None  
 ICAO ERG Code: None

**IMO / IMDG:**

IMDG Proper Shipping Name: None  
 IMDG Hazard Class and Division: None  
 IMDG Packing Group: None  
 IMDG Subsidiary Risks: None

## 15. REGULATORY INFORMATION

**U.S. Regulations:**

TSCA Inventory List - The product is exempt from TSCA, it is FDA Regulated

**OTHER REGULATIONS:**

Japanese Inventory (ENCS) This product does not comply with JPENCS

Component	Weight %	RCRA Status:	CERCLA Reportable Quantity:	CERCLA/SARA - 302 Ext. haz. substances:	Listed as Sara 313 title III:
Mesna	10	Not Listed	Not Listed	Not Listed	Not Listed
Edetate Disodium	<0.5	Not Listed	Not Listed	Not Listed	Not Listed
Benzyl Alcohol	<1.5	Not Listed	Not Listed	Not Listed	Not Listed
Water	>88	Not Listed	Not Listed	Not Listed	Not Listed

**STATE REGULATIONS:**

Component	California Prop 65:	Minnesota Right-To - Know:	Florida Right-to-Know Reporting List:	Rhode Island Right-to-Know List:	Massachusetts Right-to-Know List:	Pennsylvania Right-to-Know:	New Jersey Right-to-Know:
Mesna	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Edetate Disodium	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Benzyl Alcohol	Not Listed	Present	Not Listed	Not Listed	Present	Present	sn 2079
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**CANADIAN REGULATIONS:**

Canada DSL Inventory List - This product does not comply with DSL

EU EINECS List - This product complies with EINECS

**Risk Phrases:**

Not determined

**Safety Phrases:**

Not Determined

<b>16. OTHER INFORMATION</b>
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**This data sheet contains changes from the previous version in section(s)?:**

Additional product codes. Changes to Section 1.

**Additional information:**

Not Available.

**Prepared by:**

Technology Resources, Baxter Healthcare Corporation

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**End of safety data sheet:**