

Material Safety Data Sheet

**DI-Octopamine Hydrochloride**

**Section 1: Chemical Product and Company Identification**

**Product Name:** Mildronate

**Synonyms:** MILDRONATE;Mildonate;

3-(2,2,2-Trimethylhydrazinium)propionate;2-(2-Carboxyethyl)-1,1,1-trimethyl Hydrazinium Inner

Salt;Meldomiun;MET88

CAS:76144-81-5

MF: C6H14N2O2

MW: 146.18756

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**Section 2: Composition and Information on Ingredients**

**Composition:**

CAS#	Chemical Name	Percent	EINECS/ELINCS
76144-81-5	Mildronate	99.00	-----

### Section 3: Hazards Identification

Toxic. Contains a pharmaceutically active ingredient.  
Handling should only be performed by personnel trained and familiar with handling of potent active pharmaceutical ingredients. Moderate to severe irritant to the skin and eyes.

### Section 4: First Aid Measures

After Inhalation:	if inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration
After skin contact:	flush with copious amounts of water; remove contaminated clothing and shoes; call a physician
After eye contact:	check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician
After swallowing:	if swallowed, wash out mouth with copious amounts of water; call a physician

### Section 5: Fire and Explosion Data

Suitable extinguishing agents:	water spray, carbon dioxide, dry chemical powder or foam
Protective equipment:	wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire hazard:	emits toxic fumes such as carbon monoxide, etc

### Section 6: Accidental Release Measures

After Inhalation:	cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves
Measures for cleaning/collecting	absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

### Section 7: Handling and Storage

Information for safe handling	avoid inhalation and contact with skin, eyes and clothing; material may be an irritant
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## Section 8: Exposure Controls/Personal Protection

Personal protective equipment as follows:

Breathing equipment:	NIOSH/MSHA-approved respirator
Protection of hands:	chemical-resistant rubber gloves
Eye protection:	chemical safety goggle

## Section 9: Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** white

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 85.00~900.00 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:** Not available.

**Molecular Formula:** C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

**Molecular Weight:** 146.18756

## Section 10: Stability and Reactivity Data

Stability:	stable if stored as directed; avoid strong oxidizing agents
Thermal decomposition / conditions to be avoided:	protect from light and heat
Dangerous products of decomposition:	thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides

## Section 11: Toxicological Information

RTECS#:

Acute toxicity: none known

Primary irritant effect: not known

On the skin:	none known
On the eye:	not known; may be an irritant

### Section 12: Ecological Information

No information available.

### Section 13: Disposal Considerations

Dispose of in accordance with prevailing country, federal, state and local regulations

### Section 14: Transport Information

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

IATA class: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

### Section 15: Other Regulatory Information

**Code letter and hazard designation of product:**

**Hazard-determining components of labeling:**

**EU Risk And Safety phrases:**

S24/25: avoid contact with skin and eyes

S26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28: after contact with skin, wash immediately with plenty of water

S36/37/39: wear protective clothing, gloves and eye/face protection

R28: very toxic if swallowed

R38: irritating to skin

R41: risk of serious damages to eyes

R48: toxic; danger of serious damage to health by prolonged exposure

## **Section 16: Other Information**

**MSDS Creation Date:** 2/05/1998

**Revision #4 Date:** 11/20/2008

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