



6351 Inducon Drive East - Sanborn, NY 14132 • [www.unitedbiochemicals.com](http://www.unitedbiochemicals.com)

United Biochemicals  
6351 Inducon Drive East  
Sanborn, New York, USA

TEL: 716-284-3769  
FAX: 716-284-3769

## Material Safety Data Sheet

Effective Date: 06-23-08

### I. CHEMICAL PRODUCT

**Product:** MES, Sodium Salt  
**General Use:** Laboratory reagent

### II. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Mes Sodium Salt 85%  
Water 15%  
MF: C<sub>6</sub>H<sub>12</sub>NO<sub>4</sub>S.Na  
M.W: 217.2

CAS No: 71119-23-8  
CAS No: 7732-18-5  
EINECS No: Not Listed  
OSHA PEL: Not listed

Alternate Names: 4-Morpholineethansulfonic acid sodium salt; 2-(N-Morpholino) ethanesulfonic acid, sodium salt

### III. HAZARDS IDENTIFICATION

Warning: Toxicological properties unknown. May be harmful if swallowed, inhaled, or absorbed through skin. May cause irritation to skin, eyes, and respiratory tract.

### IV. FIRST AID MEASURES

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical attention.  
**Skin:** Rinse area with large amounts of water for at least 15 minutes. Remove contaminated clothing and footwear. Wash clothing and shoes before reuse.  
**Ingestion:** Give large amounts of water to drink. Never give anything by mouth to an unconscious person.  
**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

### V. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.  
**Fire Fighting Procedures:** Wear proper protective equipment and NIOSH self-contained breathing apparatus with full facepiece operated in positive pressure mode.  
**General Hazards:** Not listed  
**Explosions Hazards:** No information found

Telephone (716) 731-5161 • Fax (716) 731-5163 • email: [info@unitedbiochemicals.com](mailto:info@unitedbiochemicals.com)  
[www.unitedbiochemicals.com](http://www.unitedbiochemicals.com)

**Biological Buffers • UltraPure Reagents**

## VI. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spills for recovery or disposal and place in a closed container.

## VII. HANDLING AND STORAGE

**Handling:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**Storage:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control:	Provide local and/or general exhaust. Maintain eye wash station.
Respiratory Protection:	NIOSH approved respirator
Eye Protection:	Chemical safety goggles
Skin/Hand Protection:	Protective gloves and clean body-covering clothing

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white crystalline powder
Boiling Point:	no info
Melting Point:	no info
Bulk density:	no info
pH (1% solution at 20°C.):	8.9-10.1 (1% aqueous)
Solubility in water:	no info
Vapor density (air =1):	no info
Vapor pressure (mm Hg at 20°C.):	no info
% Volatile by volume:	no info

## X. STABILITY AND REACTIVITY

Flash Point:	Not available
Stability:	Stable under ordinary conditions of use and storage
Incompatibility:	Strong oxidizers
Hazardous decomposition products:	Oxides of carbon, sulfur, and nitrogen may form when heated to decomposition
Hazardous polymerization:	Will not occur

## **XI. TOXICOLOGICAL INFORMATION**

Toxicity: Not listed  
Irritation: Not listed

## **XII. ECOLOGICAL INFORMATION**

Water/AIR Pollution: No information found  
Biodegradability: No information found

## **XIII. DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

## **XIV. TRANSPORT INFORMATION**

Not regulated  
UN No: Not applicable.

## **XV. REGULATORY INFORMATION**

Canadian WHMIS Hazard Class and Division:  
Symbol (European Union):  
EEC Warning Label Statement:  
Water Pollution Class (Germany):

## **XVI. OTHER INFORMATION**

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide for safety precautions. The data does not reflect a guarantee of any product properties.