

## Material Safety Data Sheet

Effective Date: 01-31-08

### I. CHEMICAL PRODUCT

Product: MES Sodium Salt (Catalog Numbers M1110, M1101, M1103, M1105)  
General Use: Not applicable

EMERGENCY NUMBER (SPILLS, EXPOSURES): Company: 716-731-5567  
CHEMTREC: 800-424-9300

### II. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

MES Sodium Salt (2-(N-Morpholino)ethanesulfonic acid sodium salt, 4-Morpholineethanesulfonic acid sodium salt)

CAS No: 71119-23-8

Molecular Formula:  $C_6H_{12}NO_4S \cdot Na$ 

EC No: 275-203-2

Molecular Weight: 217.24

OSHA PEL:

### III. HAZARDS IDENTIFICATION

**Symptoms of exposure:** May be irritating on contact with skin, eyes and mucous membranes.  
**Additional information:** All chemicals are potentially dangerous, should only be handled by trained personnel.

### IV. FIRST AID MEASURES

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 10 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

**Skin:** In case of skin contact wash with soap and plenty of water.

**Ingestion:** If person is conscious and can swallow, give two glasses of water (16 oz.), but do not induce vomiting. If vomiting occurs, give water again. Have medical personnel determine if evacuation of stomach or induction of vomiting is necessary. Do not give anything by mouth to an unconscious or convulsing person.

**Inhalation:** If inhaled remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

### V. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

**Decomposition products:** Emits toxic fumes under fire conditions.

**Fire Fighting procedures:** Emits toxic fumes under fire conditions. Use water spray to cool containers under fire conditions. Use extinguishing media appropriate to surrounding fire conditions.

**General hazards:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

**Explosions hazards:** N/A

**NFPA rating:** Health: 1  
Flammability: 0  
Reactivity: 0

### VI. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate personal protective equipment to minimize direct contact with skin or eyes and prevent inhalation of dust.

**Clean up methods:** Sweep up with suitable equipment and place in a bag and hold for waste disposal. Prevent dusting and wash the site after material completely removed.

## VII. HANDLING AND STORAGE

<b>Handling:</b>	Avoid prolonged / repeated exposure. Avoid inhalation, contact with eyes, skin and clothing.
<b>Storage:</b>	Room temperature and keep tightly closed.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure control:</b>	Safety shower and eye bath. Mechanical exhaust. Wash thoroughly after handling.
<b>Personal protective equipment:</b>	Protective clothing.
	Respiratory: Appropriate NIOSH type N95 or better dust mask.
	Eye: Chemical safety goggles.
	Skin/Hand:: Chemical resistant gloves.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White powder
<b>Odor:</b>	Odorless
<b>Bulk density:</b>	~500 kg/m <sup>3</sup>
<b>Boiling point:</b>	No data available
<b>pH (100 g / l):</b>	9.0 – 10..5
<b>Melting point / range:</b>	No data available
<b>Solubility in water:</b>	Soluble
<b>Flash point:</b>	No data available
<b>Flammability:</b>	No data available
<b>Autoignition temperature:</b>	No data available

## X. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use / storage.
<b>Incompatibility:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Thermal decomposition may produce toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulphur oxides.
<b>Hazardous polymerization:</b>	Not applicable.

## XI. TOXICOLOGICAL INFORMATION

<b>Toxicity:</b>	LD/LC50 values for this product are not available.
<b>Route of exposure:</b>	Skin Contact: May cause skin irritation. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.
<b>Note:</b>	To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

## XII. ECOLOGICAL INFORMATION

<b>Water/AIR Pollution:</b>	Data not yet available.
<b>Biodegradability:</b>	Data not yet available.

## XIII. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
<b>Container Disposal:</b>	Observe all federal, state and local environmental regulation.



#### **XIV. TRANSPORT INFORMATION**

**DOT:** Proper Shipping Name : None  
This substance is non-hazardous for transport.

**IATA:** This substance is no-hazardous for air transport.

#### **XV. REGULATORY INFORMATION**

**U.S. Regulatory Information:** SARA Listed: No  
TSCA Inventory Item: Yes

**Canada Regulatory Information:** WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: Yes  
NDSL: No

#### **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. It does not relate to use in combination with any material or process. The data does not reflect a guarantee of any product properties.