

# SAFETY DATA SHEET

## MES, Monohydrate (2-(4-MORPHOLINO)ETHANESULFONIC ACID)

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 905-466-3832**  
**Chemical Name: MES (Monohydrate)**  
**(2-(4-MORPHOLINO)ETHANESULFONIC ACID)**

**Catalog Number: MES503/MES555**

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
**Not hazardous according to GHS**

**Potential Health Effects:**  
Eyes: may cause eye irritation  
Skin: may cause skin irritation  
Inhalation: may be harmful if inhaled  
Ingestion: may be harmful if ingested

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
MES, monohydrate	145224-94-8	99.5

**Molecular Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S.H<sub>2</sub>O  
**Molecular Weight:** 213.25

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water . Consult a physician.  
**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.  
**Inhalation:** Remove victim to fresh air. Get medical aid if irritation persists.  
**Ingestion:** Wash mouth with water. Get medical aid if any symptoms appear.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammability:** not flammable  
**Flash Point:** not determined  
**Autoignition Temperature:** not determined  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions:**  
Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.

#### Methods for containment and clean up:

Contain further leakage. Sweep and place in a closed container.. Dispose according to local regulations

### SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature. Keep cool and dry.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**  
ACGIH, NIOSH, OSHA, none listed  
Use adequate ventilation. Avoid dust generation..  
**Personal protective Equipment:** Wear appropriate safety glasses and protective gloves/clothing  
**Engineering Measures:** eye wash stations, ventilation systems, showers  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** white crystalline solid  
**Odor:** no information found  
**Odor Threshold:** : no information found  
**Melting Point:** no information found  
**Boiling Point:** no information found  
**Specific Gravity:** no information found  
**Vapor Density:** no information found  
**Vapor pressure:** no information found  
**Water Solubility:** yes  
**pH:** no information found  
**Flammability:** not flammable  
**Flash point:** no information found  
**Ignition temperature:** no information found  
**Autoignition temperature:** no information found  
**Lower explosion limit:** no information found  
**Upper explosion limit:** no information found

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong oxidizing agents.  
**Hazardous Decomposition Products:** carbon dioxide, carbon monoxide and nitrogen oxides, sulfur oxides  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50: no information found

**Epidemiology:** No data available  
**Teratogenicity:** No data available

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**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

**DOT (US):** not regulated

**IMDG:** not regulated

**IATA:** not regulated

### SECTION 15 REGULATORY INFORMATION

**US Federal regulations:**

Listed on TSCA

### SECTION 16 ADDITIONAL INFORMATION

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Date Prepared: Jan 1/2025

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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.