# **Bioland Scientific LLC**

## **Material Safety Data Sheet**

Version 1.0 Revision Date 2/20/2015 Print Date 2/20/2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name MES Monohydrate

Catalog Number CM01

Brand Bioland Chemicals

Company Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone 1-562-377-2668 Fax 1-562-733-6008 Emergency Phone # 1-562-377-2668

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 4-Morpholineethanesulfonic Acid; 2-(N-Morpholino)ethanesulfonic acid, monohydrate

Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S·H<sub>2</sub>O Molecular Weight : 213.3 g/mol

CAS-No.	EC-No.	Index-No.	%
145224-94-8			>99.5%

#### 3. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

## **Hazard Statements**

H315 - Causes skin irritation (Category 2)

H319 - Causes serious eye irritation (Category 2A)

H335 - May cause respiratory irritation (Category 3)

#### **Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically.

#### If inhaled

Move person to fresh air immediately. If breathing becomes difficult, give oxygen.

#### In case of skin contact

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing.

## In case of eye contact

Flush eyes with plenty of water for at least 20 minutes.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

## **Personal precautions**

Use personal protective equipment as indicated in Section 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

## **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Normal measures for preventive fire protection.

#### Storage

Keep containers tightly closed and upright when not in use. Store at cool, dry and well ventilated place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form: white crystalline powder
Physical State Crystalline Powder
Odor No information available
Odor Threshold No information available
Oxidizing Properties No information available
Decomposition Temperature °C No information available

Flash Point

Evaporation Rate

MMHG @ 37.8 C

Vapor Density

Autoignition Temperature

Vapor Density

No data available

Freezing Point No information available

Boiling Point/Range No data available
Melting Point/Range No data available
Flammability Limits in Air No data available

Explosive Properties No information available Solubility No information available

Partition Coefficient No data available

(n-octanol/water)

Viscosity No information available

#### 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: no data available.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon oxides, sulphur oxides.

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Product Information Irritating to eye, skin and respiratory system.

## **Chronic Toxicity**

No known effect based on information supplied

Target Organ Effects None known.

Germ cell mutagenicity: no data available

#### Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

#### 12. ECOLOGICAL INFORMATION

Elimination information: no data available

Ecotoxicity effects: no data available

Further information on ecology: no data available

#### 13. DISPOSAL CONSIDERATIONS

**Product:** Dispose of in a manner consistent with federal, state, and local regulations.

Contaminated packaging: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

**DOT (US):** Not dangerous goods **IMDG:** Not dangerous goods **IATA:** Not dangerous goods

#### 15. REGULATORY INFORMATION

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### **Pennsylvania Right To Know Components**

2-(N-Morpholino)ethanesulfonic acid, monohydrate; CAS-No. 145224-94-8

#### **New Jersey Right To Know Components**

2-(N-Morpholino)ethanesulfonic acid, monohydrate; CAS-No. 145224-94-8

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

#### 16. OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

## **HMIS Rating**

Health hazard: 2

Chronic Health Hazard:

Flammability: 0 Physical Hazard 0

#### **NFPA Rating**

Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

#### **Product Use:**

For research use only.

#### Disclaimer:

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