



Health	1
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

MES Buffered Saline

1: Chemical Product and Company Identification

<p>Product Name : MES Buffered Saline</p> <p>Catalog Code : 41320072</p> <p>CAS# : Does not apply.</p> <p>RTECS# : Not available.</p> <p>TSCA : 8(b) inventory: MES, Sodium chloride, EDTA</p> <p>CI# : Not available.</p> <p>Chemical Name : MES Buffered Saline</p> <p>Chemical Formula : Not available.</p> <p>Synonym : Not available.</p>	<p style="text-align: right;">Contact Information :</p> <p>bioWORLD 4150 Tuller Road Suite 228 Dublin, OH 43017, USA</p> <p>Phone Number : 614-792-8680</p> <p>Fax Number : 614-792-8685</p> <p>Order Online : http://www.bio-world.com/</p> <p>E-mail : save@bio-world.com</p> <p>In Case of a chemical emergency: Contact local hospital</p> <p>For non-emergency assistance: Call 1-800-860-9729</p>
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2: Composition and Information on Ingredients

Name	CAS#	% of weight
MES	4432-31-9	0.4%
Sodium Chloride	7647-14-5	0.7%
EDTA	200-449-4	<0.1%

Toxicological Data :
Not available.

3: Hazards Identification

Potential Acute Health Effects : May cause skin, eye, and respiratory tract irritation. May be harmful if swallowed.

Potentials Chronic Health Effects :

Carcinogenic Effects : No component of this product has been identified as a carcinogen.

Mutagenic Effects : Not available.

Teratogenic Effects : Not available.

Developmental Toxicity : Not available.

4: First Aid Measures

Eye Contact : In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Contact : In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician if irritation persists.

Serious Skin Contact : Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation : Not available.

Ingestion : If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Serious Ingestion : Not available.

5: Fire and Explosion Data

Flammability of the Product : Non-combustible/flammable.

Auto-Ignition Temperature : Not available.

Flash Points : Not available.

Flammable Limits : Not available.

Product of Combustion : Carbon oxides, nitrogen oxides, Sulphur oxides, Hydrogen chloride gas, Sodium oxides

Fire Hazards in Presence of Various Substances : Not available.

Explosion Hazards in Presence of Various Substances : Not available.

Fire Fighting Media and Instructions :

SMALL FIRE : Dry chemical powder.

LARGE FIRE : Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Special Remarks on Fire Hazards : Not available.

Special Remarks on Explosion Hazards : Not available.

6 : Accidental Release Measures

Small Spill : Avoid breathing vapors, do not let product enter drainage systems. Clean up and place in an appropriate waste disposal container.

Large Spill : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions : Must be kept in a dry, well ventilated space.

Storage : Store at 2-8°C. Keep tightly closed

8: Exposure Controls/Personal Protection

Engineering Controls : Safety shower and eye bath. Mechanical exhaust required.

Personal Protection : Respiratory : Government approved respirator. Hand: Chemical resistant gloves. Eye: Safety glasses.

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits : Not available.

9: Physical and Chemical Properties

Physical State and Appearance : Liquid.

Odor : Not available.

Taste : Not available.

Molecular Weight : Not available.

Color : Not available.

PH Value : 6.5

Boiling Point : Not available.

Melting Point : Not available.

Critical Temperature : Not available.

Specific Gravity : Not available.

Vapour Pressure : Not available.

Vapor Density : Not available.

Volatility : Not available.

Odor Threshold:Not available.

Water/Oil Dist. Coeff : Not available.

Ionicity(in Water) : Not available.

Dispersion Properties : Not available.

Solubility : Not available.

10: Stability and Reactivity Data

Stability : Stable.

Instability Temperature : Not available.

Conditions of Instability : Not available.

Incompatibility with various substances : Strong oxidizing agents.

Corrosivity : Not available.

Special Remarks on Reactivity : Not available.

Special Remarks on Corrosivity : Not available.

Polymerization : Has not been reported

11: Toxicological Information

Routes of Entry : Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals : Not available.

Chronic Effects on Humans : Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Other Toxic Effects on Humans : Not available.

Special Remarks on Toxicity to Animals : Not available.

Special Remarks on Chronic Effects on Humans : Not available.

Special Remarks on other Toxic Effects on Humans : Not available.

12: Ecological Information

Ecotoxicity : Not available.

BOD5 and COD : Not available.

Product of Biodegradation : Not available.

Toxicity of the Products of Biodegradation : Not available.

Special Remarks on the Products of Biodegradation : Not available.

13: Disposal Considerations

Waste Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14: Transport Information

DOT Classification :

Not a DOT controlled material.

IATA Classification :

Not an IATA controlled material.

IMDG Classification :

Not an IMDG controlled material.

Identification : Not available.

Special Provisions for Transport : Not available.

15: Other Regulatory Information

Federal and State Regulations : TSCA 8(b) inventory=> Sodium chloride

Other Regulations :

Massachusetts - RTK:-

New Jersey - RTK:Water (7732-18-5), Sodium Chloride (7647-14-5), 2-Morpholinoethanesulphonic acid (4432-31-9)

Pennsylvania - RTK: Water (7732-18-5)

Illinois - RTK:-

Rhode Island - RTK:-

California Proposition 65: This product does not contain chemicals listed under Proposition 65

Other Classifications : Not available.

WHMIS(Canada) : Not available.

DSCL(EEC) : Not available.

HMIS(U.S.A) :

Health Hazard : 1

Fire Hazard : 0

Reactivity : 0

Personal Protection : Not available.

National Fire Protection Association (U.S.A) :

Health : 1

Flammability : 0

Reactivity : 0

Specific hazard : Not available.

Protective Equipment : Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

16: Other Information

References : Not available.

Other Special Considerations :

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