



Health	0
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

Maleate Buffer 0.02M Solution

1: Chemical Product and Company Identification

Product Name : Maleate Buffer 0.02M Solution
Catalog Code : 41320008
CAS# : Not available.
RTECS# : Not available.
TSCA : 8(b) inventory: Maleic Acid,H2O,Sodium Hydroxide
CI# : Not available.
Chemical Name : Maleate Buffer Solution
Chemical Formula : Not available.
Synonym :
 Not available.

Contact Information :
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 Contact local hospital
For non-emergency assistance:
 Call 1-800-860-9729

2: Composition and Information on Ingredients

Name	CAS#	% of weight
Maleic Acid	110-16-7	~2%
Water	7732-18-5	-
Sodium Hydroxide	1310-73-2	-

Toxicological Data :

Maleic Acid: ORAL (LD50): Acute: 708 mg/kg [Rat]. DUST (LC50): Acute: 720 mg/m³ 1 hours [Rat].

3: Hazards Identification

Potential Acute Health Effects : Not a dangerous solution.

Potentials Chronic Health Effects :

Carcinogenic Effects : Not available.

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 as a precaution.

Skin Contact : In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact : Not available.

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.

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.

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. Scoop/sweep up and place in an appropriate waste disposal container.

Large Spill : Avoid breathing vapors, do not let product enter drainage systems. Absorb with an inert dry material and place in an appropriate waste disposal container. Use water spray to reduce vapors.

7: Handling and Storage

Precautions : Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

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

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 : 6.0

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 : Soluble in water.

10: Stability and Reactivity Data

Stability : Stable.

Instability Temperature : Not available.

Conditions of Instability : Not available.

Incompatibility with various substances : Bases, Oxidizing agents, Lithium, Sodium/sodium oxides, Magnesium.

Corrosivity : Not available.

Special Remarks on Reactivity : Not available.

Special Remarks on Corrosivity : Not available.

Polymerization : Will not occur.

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=> Maleic Acid, Water, Sodium Hydroxide.

Other Regulations :

OSHA: not available.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations :

Massachusetts - RTK:-

New Jersey - RTK: Water (7732-18-5)

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 : 0

Fire Hazard : 0

Reactivity : 0

Personal Protection : Not available.

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

Health : 0

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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