



Health	0
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

HEPES hemisodium salt

1: Chemical Product and Company Identification

Product Name : HEPES hemisodium salt

Catalog Code : 40820005

CAS# : 103404-87-1

RTECS# : Not available.

TSCA : Not available.

CI# : Not available.

Chemical Name : HEPES hemisodium salt

Chemical Formula : C₈H₁₇N₂NaO₄S.C₈H₁₈N₂O₄S

Synonym :

4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid hemisodium salt;

N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid) hemisodium salt;

Contact Information :

bioWORLD

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In Case of a chemical emergency:

Contact local hospital

For non-emergency assistance:

Call 1-800-860-9729

2: Composition and Information on Ingredients

Name	CAS#	% of weight
HEPES hemisodium salt	103404-87-1	

Toxicological Data :

Not available.

3: Hazards Identification

Potential Acute Health Effects : May be harmful if inhaled or swallowed.

May cause respiratory tract irritation.

May be harmful if absorbed through skin.

May cause skin irritation or eye irritation.

Potentials Chronic Health Effects :

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

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 : If breathed in, move person into fresh air. If not breathing give artificial respiration. Get medical attention.

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

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

5: Fire and Explosion Data

Flammability of the Product : Not flammable or combustible.

Auto-Ignition Temperature : Not available.

Flash Points : Not available.

Flammable Limits : Not available.

Product of Combustion : Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides, 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 : Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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 : Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage : Keep container tightly closed in a dry and well-ventilated place.

8: Exposure Controls/Personal Protection

Engineering Controls : Use mechanical exhaust or laboratory fumehood to avoid exposure.

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 : Contains no substances with occupational exposure limit values.

9: Physical and Chemical Properties

Physical State and Appearance : Crystalline powder.

Odor : Not available.

Taste : Not available.

Molecular Weight : 498.59

Color : Not available.

PH Value : Useful pH range-6.8–8.2.

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 under recommended storage conditions.

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 : Not available.

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 a IMDG controlled material.

Identification : Not available.

Special Provisions for Transport : Not available.

15: Other Regulatory Information

Federal and State Regulations : Not available.

Other Regulations : Not available.

Other Classifications : Not available.

WHMIS(Canada) : Not WHMIS controlled.

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 :

Created : 02-22-2011 04:10:33 PM **Last Updated** : 02-26-2014 04:10:33 PM

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