

United Biochemicals
6351 Inducon Drive East
Sanborn, New York, USA
Emergency # (Spills & Exposures): 800-424-9300 - CHEMTREC

TEL: 716-731-5161
FAX: 716-731-5163

Material Safety Data Sheet

Effective Date: 04-04-08

I. CHEMICAL PRODUCT

Product: HEPES HEMISODIUM SALT
General Use: Biological Buffer

II. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

HEPES Hemisodium Salt
MF: $C_{16}H_{35}N_4NaO_8S_2$
M.W: 498.60

CAS No: 103404-87-1
EINECS No: 208-548-4
OSHA PEL: Not listed

III. HAZARDS IDENTIFICATION

May cause skin irritation and/or dermatitis

IV. FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention.
Skin: Rinse area with large amounts of water for at least 15 minutes and seek medical advice.
Ingestion: Do not induce vomiting without medical advice.
Inhalation: Remove victim to fresh air. Consult medical personnel immediately.

V. FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, CO₂, water spray, or "alcohol" foam
Fire Fighting Procedures: Wear proper protective equipment and NIOSH/MSHA self-contained breathing apparatus.
General Hazards: Burning produces irritant fumes
Explosions Hazards: Not listed

VI. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

VII. HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
Storage: Room temperature desiccate

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control: Adequate ventilation.
Respiratory Protection: Breathing apparatus only if aerosol or dust is formed.
Eye Protection: Safety glasses with side shields
Skin/Hand Protection: Pvc or other plastic material gloves

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder
Boiling Point: no data
Melting Point: no data
Bulk density: no data
pH (1% solution at 20°C.): no data
Solubility in water: Soluble
Vapor density (air =1): no data
Vapor pressure (mm Hg at 20°C.): no data
% Volatile by volume: no data

X. STABILITY AND REACTIVITY

Flash Point: Not determined
Stability: Stable under recommended storage conditions.
Incompatibility: Oxidizing and spontaneously flammable products
Hazardous decomposition products: Nitrogen oxides, sodium oxides, sulphur oxides, and strong oxidizing agents
Hazardous polymerization: None under normal processing

XI. TOXICOLOGICAL INFORMATION

Toxicity: Not determined
Irritation: Not listed
Note: No data available

XII. ECOLOGICAL INFORMATION

Water/AIR Pollution: May cause long-term adverse effects in the aquatic environment.
Biodegradability: Not listed

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Observe all Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous. Do not reuse empty containers.

XIV. TRANSPORT INFORMATION

UN No: Not regulated

XV. REGULATORY INFORMATION

Canadian WHMIS Hazard Class and Division:	Not controlled
Symbol (European Union):	Not listed
EEC Warning Label Statement:	Not listed
Water Pollution Class (Germany):	Not listed

XVI. OTHER INFORMATION

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide for safety precautions. The data does not reflect a guarantee of any product properties.