

## SAFETY DATA SHEET (SDS)

VMA Buffer

Rev: A (05.15)

### 01. Product and Company Identification

**Product Identifier:**

**Trade Name:** Hepes Buffer  
**Chemical Name:** 4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid  
**Catalog Number:** 14000001  
**Part of Kits:**  
**Use of chemical:** Buffer

**Identification of Manufacturer:**

**Manufacturer/Supplier:** Biochemical Diagnostics, Inc.  
 180 Heartland Blvd., Edgewood, NY 11717  
 Phone: (631) 595-9200 | Fax: (631) 595-9204  
**Emergency telephone number:** (800) 255-3924

### 02. Hazard(s) Identification

**Classification of substance or mixture:**

Not a hazardous substance or mixture.

**Label elements:**

Not a hazardous substance or mixture

**Signal word:**
**Hazard statements:**

Not a hazardous substance or mixture

**Precautionary statements:**
**Classification system:**
**NFPA ratings (scale 0 - 4)**


Health = 0  
 Fire = 0  
 Reactivity = 0

**HMIS-ratings (scale 0 - 4)**


Health = 0  
 Fire = 0  
 Reactivity = 0

### 03. Composition/information on ingredients

**Chemical Characterization:** Mixture

**CAS No. Description** : 7365-45-9

**Formula** : C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S

**Molecular weight** : 238.30 g/mol

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**04. First aid measures****Description of first aid measures:****Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.**Ingestion:** Rinse mouth with water.**Skin Contact:** Wash with soap and plenty of water.**Eye Contact:** Rinse with thoroughly with plenty of water for at least 15 minutes.**05. Firefighting measures****Extinguishing media:** Water spray, Dry chemical, alcohol-resistant foam, or carbon dioxide.**Special Fire Fighting Procedures:** Wear proper protective equipment w/Self contained breathing apparatus.**Unusual Fire and Explosion Hazards:** None.**06. Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Avoid breathing vapors, mist or gas. Keep unprotected persons away.

**Environmental precautions:**

Do not let product enter drains.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.

**Waste Disposal Method:**

Dispose in accordance with state, local and federal regulations.

**07. Handling and storage****Handling:****Precautions for safe handling:****Conditions for safe storage, including any incompatibilities:****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Further information about storage conditions:** Keep receptacle tightly sealed.

Store in well-ventilated, cool, dry conditions in well-sealed receptacles.

**08. Exposure controls/ personal protection****Exposure Controls:****Control parameters:****Components with limit values that require monitoring at the workplace:**



Contains no substances with occupational exposure limit values.

**Personal protective equipment:****General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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<b>Eye Protection:</b>  Tightly sealed safety glasses or face shield.
<b>Skin Protection:</b> Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact <b>Protection of Hands:</b>  Protective gloves  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.
<b>Respiratory Protection:</b> If the exposure limit is exceeded, use NIOSH approved and tested full-face respirator that is independent of circulating air.
<b>Ventilation:</b> Use adequate general or local exhaust.

**09. Physical and chemical properties**

<b>Appearance:</b> Form: Liquid Color: Colorless
<b>Odor:</b> Odorless
<b>pH:</b> 8.2
<b>Melting Point:</b> 234°C <b>Boiling Point:</b> N/A
<b>Flash Point:</b> N/A
<b>Ignition temperature:</b> N/A
<b>Explosion limits:</b> Lower: N/A Upper: N/A
<b>Vapor Pressure @ 20°C:</b> N/A
<b>Specific Gravity @ 20°C (68°F):</b> 1.001 <b>Vapor Density:</b> N/A
<b>Percent Volatile:</b> N/A
<b>Evaporation Rate:</b> N/A
<b>Flammable Limits in air % by volume:</b> Lel: N/A Uel: N/A
<b>Solubility in/ Miscibility with Water@20°C:</b> soluble

**10. Stability and reactivity**

<b>Stability:</b> Stable
<b>Incompatibility:</b> no data available
<b>Conditions to Avoid:</b> N/A
<b>Hazardous Polymerization:</b> Will not occur
<b>Hazardous Decomposition:</b> no data available

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**11. Toxicological information****Acute toxicity:****LD/LC50 values that are relevant for classification:**

no data available.

**Potential health effects:****On the skin:** no data available.**On the eye:** no data available.**Inhalation:** no data available.**Ingestion:** no data available.

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