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**SECTION 1: IDENTIFICATION**

**Effective Date:** 1/4/94  
**Product Name:** HEPES  
**Chemical Formula:** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S  
**CAS No.:** 7365-45-9

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**SECTION 2: HAZARDOUS INGREDIENTS:**

Acute effects: May be harmful by inhalation, ingestion, or skin absorption. May cause irritation.  
Toxicological properties have not been thoroughly investigated

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**SECTION 3: PHYSICAL DATA**

**Physical Data:**

Appearance and Odor: white powder  
Melting Point: 234°C

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**SECTION 4: FIRE AND EXPLOSION DATA**

**Fire and Explosion Information:**

Flash point: n/a  
Flammable limit: n/a  
Extinguishing Media: water spray, carbon dioxide, dry chemical powder or appropriate foam  
Fire Fighting Procedures: wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes  
Unusual Fire and Explosion Hazards: emits toxic fumes under fire conditions

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**SECTION 5: REACTIVITY DATA**

**Reactivity Data:**

Stable \_\_\_\_\_ Unstable \_\_\_\_\_

**Incompatibilities:**

**Hazardous Decomposition or byproducts:**

**Hazardous Polymerization:**

strong oxidizing agents, protect from moisture  
toxic fumes of carbon monoxide, carbon dioxide,  
nitrogen oxides, sulfur oxides  
n/a

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**SECTION 6: HEALTH HAZARD DATA**

See section 2. Toxicological properties have not be thoroughly investigated

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**SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES**

**First Aid:**

**Eyes:** Immediately flush eyes with copious amounts of water for at least 15 minutes.  
**Skin:** Immediately wash skin with soap and copious amounts of water  
**Inhalation:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.  
**Ingestion:** Wash out mouth with water provided person is conscious. Call a physician

**Spillage:**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. 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.

**Disposal:**

Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local laws.

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**SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING**

**Other Precautions:** Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Hygroscopic. Store in cool dry place.

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**SECTION 9: SPECIAL PROTECTION INFORMATION**

**Ventilation:** mechanical exhaust required  
**Eye Protection:** chemical safety goggles  
**Protective Gloves:** chemical resistant gloves  
**Respiratory Protection:** NIOSH/MSHA approved respirator

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**SECTION 10: TRANSPORT INFORMATION**

**DOT classification:** not DOT regulated