

I Identification

Product Name: **HEPES, Free Acid**

Catalog Number: **H006**

Synonyms: **4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid, N-(2-Hydroxyethyl)-Piperazine-N'-(2-Ethanesulfonic Acid)**

Company: **Caisson Laboratories**

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Recommended Use:

Restrictions On Use:

II Hazard(s) Identification

Overview: **May be harmful if inhaled, absorbed through skin or swallowed.**

Flammability:

Reactivity:

Toxicity:

NFPA Rating

Health: **1**

Flammability: **0**

Reactivity: **0**

Special:

Pictograms:

III Composition / Information on Ingredients

General Information:

Component:

CAS#: **7365-45-9**

% by Weight: **HEPES, Free Acid > 99.5%**

IV First-Aid Measures

General Information:

Route of Exposure

Oral: **Never give anything by mouth to an unconscious person. Rinse mouth out with water. Seek medical attention.**

Inhalation: **If inhaled, move to fresh air. If breathing becomes difficult, seek medical attention.**

Dermal: **Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.**

Eye: **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. Seek medical attention.**

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point: **no data available**

Ignition Temperature: **no data available**

Suitable Extinguishing Media: **Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

Special Protective Equipment for fire fighters: **Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.**

Additional Information:

VI Accidental Release Measures

General Information: **Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.**

VII Handling and Storage

Handling: **Do not breathe dust. do not get in eyes, on skin, or on clothing.**

Storage: **Keep container tightly closed. Store at room temperature in a dry ventilated area.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Local Exhaust.**

Personal Protective Equipment

General:

Eye Protection: **Safety glasses or goggles recommended.**

Hand Protection: **Chemical-resistant gloves recommended.**

Respiratory Protection: **Use in well ventelated area.**

Skin and Body Protection: **Handle with gloves.**

Hygiene Measures:

IX Physical and Chemical Properties

General Information:

Appearance: **White, crystalline powder.**

pH: **5.0 - 6.5 at 238 g/l at 25 °C (77 °F)**

Specific Gravity:

Melting Point: **234 °C (453 °F)**

Boiling Point:

Flash Point: **no data available**

Flammability Range:

Vapor Pressure:

X Stability and Reactivity

General Information:

Storage Stability

Temperature: **Room Temperature**

Light Sensitive: **True**

Incompatibles: **Strong oxidizing agents.**

Hazardous Decomposition Products:

XI	Toxicological Information
<p>General Information:</p> <p>Acute Toxicity:</p> <p>Chronic Toxicity:</p> <p>Local Effects:</p> <p>Target Organs:</p> <p>Carcinogenicity:</p> <p>OSHA Permissible Exposure Limits:</p>	
XII	Ecological Information
<p>General Information:</p>	
XIII	Disposal Considerations
<p>General Information:</p> <p>Disposal of Product: Observe all federal, state and local environmental regulations.</p> <p>Disposal of Packaging: Rinse and dispose according to federal, state and local environmental regulations.</p>	
XIV	Transport Information
<p>Proper Shipping Name: CHEMICALS, N.O.S (NON-REGULATED)</p> <p>UN#:</p> <p>Class:</p> <p>Packaging Group:</p> <p>Hazard Label:</p>	
XV	Regulatory Information
<p>General Information:</p> <p>TSCA:</p> <p>SARA 313:</p>	
XVI	Other Information
<p>General Information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Caisson Laboratories, Inc. Shall not be held liable for any damage resulting from handling or from contact with the above product.</p>	

Last Revision Date: 17 Nov, 2014