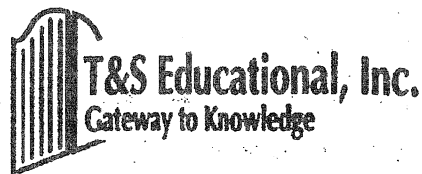


Material Safety Data Sheet

Product: HEPES
Synonym: N-2-Hydroxyethylpiperazone-n-2-Ethanesulfonic Acid
Catalog Number: 101926; 194549; 194827



Composition Information

Chemical Formula/Composition: $C_8H_{15}N_2O_4S$
Physical Description: White Powder

Hazard Identifications

TLV of the Substance: Not Available
WHMIS #: NC

Route(s) of Entry-

Inhalation: Yes
Skin: Yes
Ingestion: Yes

Health Hazards:

The toxicological properties of this compound have not been thoroughly investigated. Possibly toxic via oral, inhalation or absorption.

Signs and Symptoms of Exposure:

May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

First Aid Measures

Substance in Contact with skin:

Remove contaminated clothing and rinse with copious amounts of soap and water for a considerable amount of time. Call a physician.

Substance has been swallowed:

Rinse mouth several times with water but do not swallow. Always call a physician or take patient to hospital.

Substance in Contact with eyes:

Rinse liberally with water for a considerable amount of time. Always call a physician or take to a hospital.

Substance has been inhaled:

Take patient into the fresh air and allow to rest. Always call a physician or take patient to hospital.

Additional Instructions:

Observe proper laboratory procedures when handling material.

Fire-Fighting Measures

Flammability:

No Unusual Hazard

Flash Point:

Not Available

Minimum Ignition Temperature:

Not Available

Risk of Explosion:

No Unusual Hazard

Extinguishing Media:

Carbon Dioxide, dry chemical, or foam

Accidental Release Measures

Spill or Release of Material:

Sweep into suitable container for disposal.

Handling and Storage

Storage: Room Temperature

Handling:

Always wear gloves, mask, goggles or other protective clothing and use a hood. Follow proper laboratory procedures.

Exposure Controls and Personal Protection

Personal Protection-

Respiratory: Yes

Eyes: Yes

Protective Gloves: Yes

Is a local exhaust system required when the substance is used for its normal purpose: Yes

Physical and Chemical Properties

Melting Point: 234°C
Boiling Point: Not Available
Specific Gravity: Not Available
Vapor Pressure: Not Available
Solubility in Water: Soluble
CAS #: 7365-45-9
RTECS #: Not Available

Stability and Reactivity

Any Dangerous Reactions:

Strong oxidizing agents

Decomposition of the substance when heated or burned:
Acrid smoke and irritating fumes

Toxicological Information

Not Available

Disposal Considerations

Incinerate or landfill as complies with state and local laws.

Transport Information

UN #: None

Regulatory Information

TSCA (Toxic Substance Control Act):	Listed
SARA 302:	No
SARA 313:	No

Refer to 40 CFR Part 355 for Section 302 and 40 CFR Part 372 for Section 313 of Title III.

National Fire Rating System-

Health:	1
Flammability:	1
Reactivity:	0
Special Notice:	S/N

Hazard Ratings: 4: Severe; 3: Serious; 2: Moderate; 1: Slight; 0: Minimal; - : Unknown

Date of Preparation: 02/15/2000

The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must consider these data only as supplemental to other information gathered by them and must make independent determinations of this suitability and completeness of information from all sources to assure proper use and disposal of the materials and the safety and health of employees and customers. ICN assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Emergency Response Numbers:
Chemtrec # 800-424-9300 (703-527-3887)
National Response Center: 800-424-8802