



Safety Data Sheet HEPES Sodium Salt

Section 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name: HEPES Sodium Salt

CAS#: 75277-39-3

EC#: 278-169-7

RTECS: Not Applicable

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Company Identification

BioSpectra, Inc.
100 Majestic Way
Bangor, PA 18013
610.599.3400

1.4 Emergency Numbers

US & Canada: 1-800-424-9300

Outside the US & Canada: +1-703-527-3887

Section 2 - Hazards Identification

2.1 Classification of substance or mixture

Not a hazardous substance or mixture

2.2 GHS Label Elements Including Precautionary Statements

Not classified by GHS as a dangerous substance

2.3 Hazards not classified or not covered by the GHS

OSHA Hazards: None known

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EC #
75277-39-3	N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid), sodium salt	99-100%	278-169-7

Molecular Formula: C₈H₁₇N₂NaO₄S

Molecular Weight: 260.29 g/mol

Synonyms: 4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid sodium salt

Section 4 - First Aid Measures

4.1 Description of necessary first aid measures

General advice: Remove from dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

Skin: Wash with soap and plenty of water.

Ingestion: Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth out with water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Section 5 - Firefighting Measures

General Information: Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) and full protective gear to prevent contact with thermal decomposition products. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: In case of fire use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Hazards: None known.

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NO_x), sulphur oxides, sodium oxides.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Dispose of according to local and regional authority requirements. Provide ventilation.

Environmental Precautions: Do not let product enter drains or waterways.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Avoid formation of dusts and aerosols.

Storage: Store in a tightly closed container in a dry, well ventilated place. Hygroscopic.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation. Use general industrial hygiene practices.

Exposure Limits

Chemical Name	ACGIH (TLV)	NIOSH	OSHA - Final PELs
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N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid), sodium salt	None listed	None listed	None listed
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OSHA Vacated PELs: None known.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves. Nitrile rubber with layer thickness 0.11mm. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Clothing: Wear appropriate impervious protective clothing to minimize contact with skin.

Respirators: Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. A respiratory protection program that meets OSHA's 29 CFR '1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

9.1 Chemical Property Information

Physical State: Solid	Freezing/Melting Point: No data
Appearance: White powder	Initial Boiling Point Temperature: No data
Odor: No data	Flash Point: No data
pH: No data	Bulk Density: No data
Vapor Pressure: No data	Water Solubility: 50 g/L
Vapor Density: No data	Decomposition Temperature: No data
Viscosity: No data	Relative Density: No data

Section 10 - Stability and Reactivity

10.1 Reactivity: No data

10.2 Chemical Stability:

Stable under normal storage conditions.

10.3 Possibility of Hazardous Reactions: No data

10.4 Conditions to Avoid

Incompatible materials. Dust generation. Exposure to moisture.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents

10.4 Hazardous Decomposition Products

No data available.

10.5 Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

11.1 Toxicological effects

LD50/LC50: No information available

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Routes of Exposure:

Epidemiology: No information available.

Teratogenicity: No information available.

Mutagenicity: No information available.

Reproductive Effects: No information available.

Carcinogenicity: Specific target organ toxicity-single exposure: no data available

Specific target organ toxicity-repeated exposure: no data available

Aspiration hazard: no data available

Additional Information

RTECS: Not available

Section 12 - Ecological Information

12.1 Ecotoxicity

No information available.

12.2 Environmental Fate

No data.

12.3 Physical/Chemical

No information found.

Section 13 - Disposal Considerations

13.1 Disposal Methods

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMDG	Canada TDG
Shipping Name:	Not Dangerous Goods	Not Dangerous Goods	No Information Available	Not Dangerous Goods	No Information Available.
Hazard Class:					
UN Number:					
Packing Group:					

Section 15 - Regulatory Information

15.1 EHS Chemical Regulations

US FEDERAL

TSCA

CAS# 75277-39-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

ARA

Section 302 (RQ): None of the chemicals in this material have an RQ.

Section 302 (TPQ): None of the chemicals in this product have a TPQ.

SARA Codes: None

Section 313: None

Section 311/312 Hazards: None

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

Pennsylvania Right To Know Components

HEPES sodium salt CAS- No. 75277-39-3

New Jersey Right To Know Components

HEPES sodium salt CAS- No. 75277-39-3

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

REACH Number: No registration number is available, the substance or uses of this substance are exempt from registration, annual tonnage registration is not required or it is envisaged for a registration deadline at a later date.

Section 16 - Additional Information

16.1 Hazard Ratings

HMIS Rating

Health hazard: 0

Flammability: 0

Physical Hazard: 0

Personal Protection: A

NFPA Rating

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.