



# HEPES Sodium Salt

Safety Data Sheet

According to Regulation (EC) 1272/2008

## 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

Supplier : BioSpectra, Inc.  
 100 Majestic Way  
 Bangor, PA 18013  
 T: 610.599.3400  
 ehs@biospectra.us

### 1.4 Emergency Numbers

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 classified as a hazardous substance or mixture

### 2.2 GHS Label Elements Including Precautionary Statements

Not classified by GHS or EC as a dangerous substance

### 2.3 Hazards not Classified or not Covered by the GHS

Not Applicable

## SECTION 3 - Composition, Information on Ingredients

Chemical Name	Hazard Classification	Percent
4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid sodiumsalt	Not classified	>99%

Molecular Formula :  $C_8H_{17}N_2NaO_4S$   
 Molecular Weight : 260.29 g/mol  
 Synonyms : Sodium 2-4-(2-Hydroxyethyl)piperazin-1-yl)ethanesulfonate

## SECTION 4 - First Aid Measures

### 4.1 Description of Necessary First Aid Measures

General advice : Treat symptomatically  
 Eyes : Immediately flush eyes with tepid water for at least 15 minutes, occasionally lifting the upper and lower lids.  
 Skin : Remove contaminated clothing. Rinse with tepid water.

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- Ingestion : Drink water. 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.

## 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 : Water, dry chemical, carbon dioxide
- Additional Hazards : Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of decomposition products.
- Hazardous decomposition products : Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides (SO<sub>x</sub>)
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus (NIOSH)

## 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 : Observe label precautions, change contaminated clothing. Wash hands after working with substance.
- 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.
- OSHA Vacated PELs : None known

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

### 8.1 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.

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**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
Appearance	: White to colourless crystalline powder
Odor	: No Strong Odor
pH	: No information available
Vapor Pressure	: No information available
Vapor Density	: No information available
Viscosity	: No information available
Melting Point	: 274.9°C
Initial Boiling Point Temperature	: No information available
Flash Point	: No information available
Bulk Density	: No information available
Water Solubility	: 758.7 g/L @ 20°C
Decomposition Temperature	: No information available
Relative Density	: 1.504 @ 20°C

**SECTION 10 - Stability and Reactivity****10.1 Reactivity**

When swirled up in fine dust distribution, a dust explosion may occur

**10.2 Chemical Stability**

Hygroscopic

**10.3 Possibility of Hazardous Reactions**

Violent reactions possible with strong oxidizers

**10.4 Conditions to Avoid**

Incompatible materials. Dust generation.

**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.

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## SECTION 11 - Toxicological Information

### 11.1 Toxicological Effects

LD50/LC50	: 2,000 mg/kg bw (rat)
Carcinogenicity	: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology	: No information available
Teratogenicity	: No information available
Mutagenicity	: No information available.
Reproductive Effects	: No information available.
	No information available
Carcinogenicity	
Specific target organ toxicity-single exposure	: No information available
Specific target organ toxicity-repeated exposure	: No information available
Aspiration hazard	: No information available

### 11.2 Additional Information

No information available

## SECTION 12 - Ecological Information

### 12.1 Ecotoxicity

No information available.

### 12.2 Environmental Fate

No information available

### 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.

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**SARA**

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	: Not Available
Section 313	: Not Available
Section 311/312 Hazards	: Not Available
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

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