



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
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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 : C₈H₁₇N₂NaO₄S

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 (NOx), Sulphur oxides (SOx)

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	:	No information available
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:					
Hazard Class:					
UN Number:					
Packing Group:					

Not Dangerous Goods

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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