

L-Histidine Monochloride Monohydrate

Safety Data Sheet According to Regulation (EC) 1272/2008

1.1 Product Identifiers Product Name:				
Product Name:				
CAS #: EC #: RTECS #: REACH Registration Number				
	Chemical and Restrictions of Use			
Chemical Manufacturing, labo	ratory chemicals, synthesis of substances			
1.3 Supplier Details				
Supplier: 10 T	BioSpectra, Inc. 100 Majestic Way Bangor, PA 18013 T: 610.599.3400 ehs@biospectra.us			
1.4 Emergency Numbers				
Emergency number: US & Canada: 1-800-424-9300 Outside the US & Canada: +1 703-527-3887				
SECTION 2 – Hazard Ident	ification			
2.1 Classification of Substand	ce or Mixture			
GHS Classification in accorda	nce with 29 CFR 1910 (OSHA HCS)			
Eye irritation (Category 2)				
2.2 GHS Label Elements Inc	luding Precautionary Statements			
Pictogram				
Signal Word	Warning			
Hazard statement(s)	: H319 - Causes serious eye irritation.			
Precautionary statement(s)	: P280: Wear protective gloves/protective clothing/eye protection/face protection.			
	P305 + P351 + P 338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	P337 + P313 – If eye irritation persists: Get medical advice/attention.			

2.3 Hazards not Classified or not Covered by the GHS

None

Component		Classification	Concentration
L-Histidine monohydrochloride monohydrate		Eye irritation (Category 2)	<=100%
Synonyms	: L-Histidine HCl hydrate, L-Histidine Hydrochloride Monohydrate, L-Histidine hydrochloride hydrate		
EC Number	ŝ	611-821-4	
	:	5934-29-2	
CAS Number		C ₆ H ₉ N ₃ O ₂ ·HCl·H ₂ O	
CAS Number Molecular Formula	- 2		

4.1 Description of Necessary First Aid Measures Eyes Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Immediately call in ophthalmologist. Remove contact lenses. Skin Take off contaminated clothing immediately. Rinse contaminated area with 2 plenty of water for at least 15 minutes. Ingestion Immediately drink plenty of water to dilute. DO NOT induce vomiting unless instructed to do so by a medical professional. Never give anything by mouth to an unconscious person. Inhalation Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Notes to Physician Treat symptomatically and supportively.

4.2 Most Imnortant Symptoms/Effects. Acute and Delayed

Refer to Section 2.2 for Precautionary Statements if any are applicable

4.3 Indication of Immediate Medical Attention and Special Treatment

No information available

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Specific Hazards Associated with this Chemical

Carbon Oxides, Nitrogen Oxides (NOx), Hydrogen Chloride,

Combustible

Development of hazardous combustion gases or vapors possible in the event of a fire.

5.3 Special Equipment/Precautions for Firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

5.4 Other Information

Suppress (knock down) gases/vapors and/or mists with a water spray jet. Prevent fire extinguishing water form contaminating surface water or the ground water system.

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions. Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures and consult an expert. Use proper personal protective equipment as indicated in Section 8.

6.2 Environmental Precautions

Do not allow product to enter drains

6.3 Methods and Materials for Containment and Cleaning Up

Cover drains. Collect, bind and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

6.4 Other Information

For disposal instructions see section 13.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

For precautions see section 2.2

7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Other Information

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Chemical does not contain any substances with occupational exposure limits

8.2 Engineering Controls

Change contaminated clothing. Wash hands after working with substance.

8.3 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. Tightly fitting safety goggles.

Skin

Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves: Nitrile rubber with layer thickness 0.07mm. This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use.

Clothing

Wear appropriate protective clothing to prevent skin exposure

Respirators

Required when dusts are generated. Recommended filter type P2. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environment exposure

Do not let product enter drains

SECTION 9 - Physical and Chemical Properties

Physical State Appearance Odor	SolidWhite CrystallineNot available
pH	4.4-4.5 @ 149.55 g/L @ 20 deg C
Vapor Density	Not available
Viscosity	Not available
Melting Range	256-268 °C
Boiling Point	Not available
Decomposition Temperature	: >268°C
Specific Gravity/Density	Not available
Solubility	149.55 g/L at 20 °C
Molecular Formula	: $C_6H_9N_3O_2$ ·HCl·H ₂ O
Molecular Weight	: 209.63 g/mol

SECTION 10 - Stability and Reactivity

10.1 Chemical Stability

Stable under standard ambient conditions (room temperature).

10.2 Conditions to Avoid

Incompatible materials

10.3 Incompatibilities with Other Materials

Strong oxidizing agents

10.4 Hazardous Decomposition Products

In the event of a fire refer to section 5

10.5 Hazardous Polymerization

Not data available

SECTION 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50 Intraperitoneal, mouse	1	LD50 = > 1677 mg/kg
LD50/LC50 Dermal, rat	3	No data available
Carcinogenicity	3	CAS# 5934-29-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
Epidemiology	1	Reconstructed human epidermis (RhE) Result no irritation - 15 min
Teratogenicity	1	No data available
Reproductive Effects	ŝ.	None listed
Neurotoxicity	1	No data available
Mutagenicity	8	No data available
Other Studies	ः	No data available

11.2 Additional Information

RTECS#

: MS3119000

Repeated dose toxicity - rat - Oral - No observed adverse effect level - 1,000 mg/kg To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

12.1 Ecotoxicity				
	Foxicity to Daphnia an	nd Other Aquatic Invertebrates		
EC50 – Daphnia magna (Water flea)		> 100 mg/l - 48h		
ErC50 - Desmodesmus subspicatus (green algae)		> 100 mg/l - 72h		
12.2 Persistence and Degradability				
Biodegradability Result Method	: Aerobic Result: 1 : ECHA	– Exposure time 21d 16.5% - Readily biodegradable		
12.3 Bioaccumulative Potential				
No information available				
12.4 Mobility in Soil				
No information available				
12.5 Results of PBT and vPvB Asses	sment			
No information available as chemical	safety assessment not re	equired/not conducted		
12.6 Other Adverse Effects				
No information available				

SECTION 13 - Disposal Considerations

Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14 - Transport Information

Regulations	US DOT	ΙΑΤΑ	IMDG	Further information
Shipping Name				
Hazard Class	Not	Not Dangerous Goods	Not Dangerous Goods	Not classified as dangerous in the meaning of transport regulations
UN Number	Dangerous Goods			
Packing Group				

SECTION 15 - Regulatory Information				
15.1 EHS Chemical Specific Regulations				
SARA:				
Section 302	This material does not contain any components with a section 302 EHS TPQ			
Section 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
SARA 311/312 Hazards	: No SARA Hazards			
STATE SPECIFIC:				
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.			

SECTION 16 - Additional Information	on
16.1 Hazard Ratings	
2400 get keinteste	NFPA Rating
Health hazard	0
Fire Hazard	0
Reactivity Hazard	0
	HMIS Classification
Health hazard	0
Flammability	0

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Physical Hazards