

#### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME	L-HISTIDINE HYDROCHLORIDE, EP (Monohydrate)	
PRODUCT CODE	3131	
SUPPLIER	MEDISCA Inc.   Tel.: 1.800.932.1039   Fax.: 1.855.850.5855   661 Route 3, Unit C, Plattsburgh, NY, 12901   6641 N. Belt Line Road, Suite 130, Irving, TX, 75063   MEDISCA Pharmaceutique Inc.   Tel.: 1.800.665.6334   Fax.: 514.338.1693   4509 Rue Dobrin, St. Laurent, QC, H4R 2L8   21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2   MEDISCA Australia PTY LTD   Tel.: 1.300.786.392   Fax.: 61.2.9700.9047   Unit 7, Heritage Business Park   5-9 Ricketty Street, Mascot, NSW 2020	
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670	
RECOMMENDED USES	Manufacturing and Compounding	
RESTRICTIONS ON USE	Not applicable	

### **SECTION 2: HAZARDS IDENTIFICATION**

GHS CLASSIFICATION	Based on available	Based on available data, the classification criteria are not met.					
PICTOGRAM	Not Applicable						
SIGNAL WORD	Not Applicable.	Not Applicable.					
HAZARD STATEMENT(S)	Not Applicable.						
ADVERSE PHYSIOCHEMICAL, HUMAN	Repeated exposur	Repeated exposure may cause skin dryness or cracking.					
HEALTH AND ENVIRONMENTAL EFFECTS							
PRECAUTIONARY STATEMENT(S)	RY STATEMENT(S) Prevention Not Applicable.						
	Response	Not Applicable.					
	Storage						
	Disposal						
HMIS CLASSIFICATION	Health Hazard		1		Flammability	0	
	Reactivity		0		Personal Protection	В	

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	(S)-2-Amino-1H-imidazole-4-propionic acid	(S)-2-Amino-1H-imidazole-4-propionic acid monohydrochloride					
BOTANICAL NAME	Not applicable	Not applicable					
SYNONYM	L-Histidine Monohydrochloride Monohydrat	te; Histidine monohydro					
CHEMICAL FORMULA	C6H9N3O2 HCI H2O						
CHEMICAL FAMILY	Amino acid	Amino acid					
CAS NUMBER	5934-29-2	5934-29-2					
ALTERNATE CAS NUMBER	Not applicable						
MOLECULAR WEIGHT	209.6318						
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT			
	L-HISTIDINE HCI (Monohydrate)	5934-29-2	611-821-4	100			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

#### SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.			
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.			
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.			
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician			
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.			
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.			

### **SECTION 5: FIREFIGHTING MEASURES**

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable
FLAMMABLE PROPERTIES	May be combustible at high temperature
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	Small fire: dry chemical, CO <sub>2</sub> or water spray. Large fire: dry chemical, CO <sub>2</sub> , alcohol resistant foam or water spray. Do not get water inside containers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers. Minimize generation of dust.



#### CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### **SECTION 7: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING	Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
CONDITIONS FOR SAFE STORAGE	Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
STORAGE CONDITIONS	Store in original container, tightly sealed, protected from direct sunlight and moisture.

### SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

	Country Limit va		Limit value-8 hours		Limit value-Short Term		REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

#### Chemical Name: L-HISTIDINE HCI (Monohydrate) CAS #: 5934-29-2

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES	Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m <sup>3</sup>
PERSONAL PROTECTIVE EQUIPMENT	<b>Eyes:</b> Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. <b>Skin:</b> Wear appropriate gloves to prevent skin exposure. <b>Clothing:</b> Wear appropriate protective clothing to minimize contact with skin. <b>Respirators:</b> Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Thermal Hazards:</b> For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.
SPECIFIC ENGINEERING CONTROLS	Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.



BIOLOGICAL MONITORING CONTROL BANDING Not available

Not available

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid	Solid						
DESCRIPTION	White	White or almost white, crystalline powder or colourless crystals.						
SOLUBILITY	Freel	y soluble in water, sl	ightly soluble in ethanol (96 per ce	nt).				
ODOR	Not a	vailable						
FLAMMABILITY	May	be combustible at hig	gh temperature					
AUTO-IGNITION TEMPERATURE		Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	(251-252)°C, (483.8-485.6)°F		
EVAPORATION RATE	I	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available		
log P (OCTANOL-WATER)		Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	(251-252)°C, (483.8-485.6)°F (decomposes)		
PARTICLE CHARACTERISTICS		Not available	OXIDIZING PROPERTY	Not available	рН	3 - 5 (5%)		
RELATIVE DENSITY (WATER = 1)		Not available	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available		
VAPOR DENSITY (AIR = 1)		Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available		

The physical data presented above are typical values and should not be construed as a specification.

### SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established.
CHEMICAL STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE MATERIALS	Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.
HAZARDOUS POLYMERIZATION	Will not occur.
POSSIBLITY OF HAZARDOUS REACTION	Not established.
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures.

### SECTION 11: TOXICOLOGICAL INFORMATION



ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): > 15000 Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available					
SKIN CORROSION/IRRITATION	Due to lack of data the classification is not possible.					
SERIOUS EYE DAMAGE/EYE IRRITATION	Due to lack of data the classification is not possible.					
RESPIRATORY SENSITIZATION	Due to lack of d	Due to lack of data the classification is not possible.				
SKIN SENSITIZATION	Due to lack of da	ata the classification is not possible.				
GERM CELL MUTAGENICITY	Due to lack of d	ata the classification is not possible.				
CARCINOGENICITY	OSHA	L-HISTIDINE HYDROCHLORIDE is not listed.				
	NTP	L-HISTIDINE HYDROCHLORIDE is not listed.				
	IARC	L-HISTIDINE HYDROCHLORIDE is not evaluated.				
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.				
ADDITIONAL CARCINOGENICITY INFORMATION	Due to lack of d	ata the classification is not possible.				
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible.					
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Due to lack of data the classification is not possible.					
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Due to lack of data the classification is not possible.					
ASPIRATION HAZARDS	Due to lack of data the classification is not possible.					
SIGNS AND SYMPTOMS OF EXPOSURE	ROUTES OF EXPOSURE: Oral, Dermal, Inhalation, Eye contact EARLY ONSET SYMPTOMS RELATED TO EXPOSURE: Not available DELAYED HEALTH EFFECT FROM EXPOSURE: Not available					
	Not expected to	present a significant hazard under anticipated conditions of normal use.				
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.				
	Ingestion	May be harmful if swallowed.				
	Skin	May be harmful if absorbed through skin. May cause skin irritation				
	Eyes	May cause eye irritation.				

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	EC50: 48 Hr: Crustacea: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available					
PERSISTENCE AND DEGRADABILITY	BOD= 0.556 g/g (for L-Histidine)					
BIOACCUMULATIVE POTENTIAL	Not available					
MOBILITY IN SOIL	Freely soluble in water. Water solubility:16.8 g/100g (20°C)					
OTHER ADVERSE EFFECTS	Not available					



This product is not intended to be released into the environment

### SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS** 

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

#### SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME	Not dangerous good
UN NUMBER	Not applicable
CLASS	Not applicable
PACKING GROUP	Not applicable
AUSTRALIA	
HAZCHEM	Not applicable
EU TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not Listed
ENVIRONMENTAL HAZARDS	Not available
SPECIAL SHIPPING INFORMATION	Not applicable

#### **SECTION 15: REGULATORY INFORMATION**

#### UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
L-HISTIDINE HCI (Monohydrate) 5934-29-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

#### AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
L-HISTIDINE HCI (Monohydrate) 5934-29-2	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

#### EU REGULATIONS



Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
L-HISTIDINE HCI (Monohydrate) 5934-29-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L
N/L = Not Listed; X = Listed							
Any EU regulation not listed abov	e is not applicab	le to this product.					
SUBJECT TO INTERNATIONAL AGREEMENT	1	Not applicable					
		SECTION 1	6: OTHER I	NFORMAT	ION		
REFERENCES	ŀ	Available upon requ	est				
ABBREVIATIONS AND ACRON	H iii 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hygiene Association ndustrial chemical S Comprehensive Environ Materials Informatio System; IARC – Inte RFMN – Ready Bio D50 – Lethal Dose Docupational Safety Health Administratic Recommended Exp	Workplace Enviro Substances Accord vironmental Respon- mental Protection n System; <b>HSE</b> – Hernational Agency f degradability Mode , 50%; <b>MSHA</b> - Mirr v and Health; <b>NTP</b> - on Permissible Expo osure Limit; <b>SARA</b> V – Threshold Limit	inment Exposure L ing to Regulations nse, Compensation Agency; <b>GHS</b> – Gl lealth and Safety R or Research on Ca el; <b>ISS</b> – Instituto S ne Safety and Hea - National Toxicolo osure Limits; <b>QSA</b> – Superfund Ameri	evels; CAESAR - s; CAS – Chemical n, and Liability Ac lobal Harmonized Executive; HSIS – ancer; IDLH - Imm Superiore Sanità; I Ith Administration ogy Program; OSI R – Quantitative S ndments and Rea	A WEEL – American I - Computer Assisted E I Abstract Service; CE I; EC50 – Effective Co System; HMIS – Haza Hazardous Substanc hediately Dangerous to -C50 – Lethal Concen ; NIOSH – National Ins HA PEL – Occupationa Structure-activity relation uthorization Act; STEI age; WHMIS – Workpl	Evaluation of <b>RCLA</b> – ncentration, ardous es Informatio b Life or Hea tration, 50% stitute for al Safety & onship; <b>REL</b> – Short Ter
LAST REVISION	C	03/2023					
SUPERSEDES		08/2021		4 - I - 4			
	F	or a list of changes	s to the SDS since	the last version, pl	lease communicat	te with MEDISCA at	

www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.