



# SAFETY DATA SHEET

Preparation Date: 11/30/2015	<b>Revision Date:</b> 11/30/2015	Revision Number: G1

1. IDENTIFICATION

**Product identifier** 

Product code: H1022

Product Name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC

Other means of identification

**Synonyms:** (S)-alpha-Amino-1H-imidazole-4-propionic acid hydrochloride, monohydrate;

I-alpha-Amino-4(or 5)-imidazolepropionic Acid Monohydrochloride, monohydrate

CAS #: 5934-29-2
RTECS # MS3119000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

Not classified			

Hazards not otherwise classified (HNOC)

Not Applicable

Product code: H1022 Product name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
L-Histidine Monohydrochloride, Monohydrate	5934-29-2	100	*
5934-29-2			

### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye/skin irritation. May affect the blood. May cause central nervous system effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Product code: H1022

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

**Hazardous Combustion Products:** Carbon monioxide; Carbon dioxide; nitrogen oxides;

hydrogen chloride gas

**Specific hazards:**May be combustible at high temperatures

**Special Protective Actions for Firefighters** 

Product name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

### **Incompatible Materials:**

Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

### National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
L-Histidine Monohydrochloride,	None	None	None	None
Monohydrate				
5934-29-2				

#### Canada

Product code: H1022 Product name: L-HISTIDINE 3 / 11
MONOHYDROCHLORIDE,

MONOHYDRATE, FCC

#### Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
L-Histidine Monohydrochloride,	None	None	None	None
Monohydrate				
5934-29-2				

#### **Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
L-Histidine Monohydrochloride,	None	None
Monohydrate		
5934-29-2		

#### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

Product code: H1022

**Eye protection:** Goggles. or. Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the

substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering

controls are not feasible. Be sure to use an approved/certified respirator or

equivalent. .

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state:Appearance:Color:Solid.Crystalline powder.White.

Odor: Taste Formula:

Odorless. No information available C6GH9N3O2.HCI.H2O

Molecular/Formula weight: Flammability: Flash point (°C):

209.63 No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

No information available. Not available No information available

Lower Explosion Limit (%): Upper Explosion Limit (%): pH:

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

80 °C/176 °F No information available No information available

Bulk density: Density (g/cm3): Specific gravity:

Vapor pressure @ 20°C (kPa): Evaporation rate: Vapor density:

No information available 
No information available 
No information available

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available

Viscosity:Miscibility:Solubility:No information availableNo information availableSoluble in Water

Solubility in Water: 170 g/L @ 20 deg.

С

### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride gas.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: H1022 Product name: L-HISTIDINE

MONOHYDROCHLORIDE, MONOHYDRATE, FCC

# **Principal Routes of Exposure:**

Ingestion. Inhalation.

## **Acute Toxicity**

### **Component Information**

L-Histidine Monohydrochloride, Monohydrate - 5934-29-2

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No infomation available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: H1022

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause central nervous system effects (affect behavior).

**Aspiration hazard**No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the blood (changes in red blood cell

count).

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: No information available.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
L-Histidine	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Monohydrochloride,						
Monohydrate						

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available No information available No information available

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

## 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Product code: H1022

Empty containers should be taken for local recycling, recovery or waste disposal

Product name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
L-Histidine Monohydrochloride, Monohydrate	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

Packing Group: None

**ERG No:** No information available

Marine Pollutant No data available

**DOT RQ (lbs):** No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**ADR** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

**IMO / IMDG** 

UN-No: Not Regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available No information available **Marine Pollutant** No information available MFAG: **Maximum Quantity:** No information available

**RID** 

Product code: H1022

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

### 14. TRANSPORT INFORMATION

#### **ICAO**

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

### **IATA**

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

## 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
L-Histidine Monohydrochloride, Monohydrate	Not Listed	Not present	Present	Not present	Present	Present	Not present

#### U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
L-Histidine Monohydrochloride, Monohydrate	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

•	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	Chemical Category	Section 313 - Reporting de minimis
L-Histidine	None	None	None	None	None
Monohydrochloride,					
Monohydrate					

#### U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
L-Histidine Monohydrochloride,	Not Applicable	Not Applicable
Monohydrate		

Product code: H1022 Product name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC

#### Canada

#### WHMIS hazard class:

Non-controlled

### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

## Inventory

Components	Canada (DSL)	Canada (NDSL)
L-Histidine Monohydrochloride,	Not Listed	Not Listed
Monohydrate		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting	
L-Histidine Monohydrochloride,	Not listed	Not listed	
Monohydrate			

#### **EU Classification**

### R-phrase(s)

not determined (not applicable)

## S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
L-Histidine Monohydrochloride,		No information	
Monohydrate			

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

Not dangerous

# **16. OTHER INFORMATION**

Product code: H1022

Product name: L-HISTIDINE MONOHYDROCHLORIDE, MONOHYDRATE, FCC

## 16. OTHER INFORMATION

Preparation Date:11/30/2015Revision Date:11/30/2015Prepared by:Sonia Owen

Disclaimer:

Product code: H1022

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**