

SAFETY DATA SHEET

Creation Date 17-Sep-2014

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

L-Histidine

Cat No. :AC166150000; AC166150250; AC166151000; AC166155000CAS No
Synonyms71-00-1
His; L-2-Amino-3-(4-imidazolyl)propionic acidRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

| Component L-Histidine | | CAS 71-00 | | Weight % | |
|--|---|---|------------------|---|--|
| L-HIStidine | | 71-00 | J- 1 | 98 | |
| | 4. F | irst-aid mea | sures | | |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. | | | | |
| Skin Contact | | ediately with soap ar oes. Get medical at | | r while removing all contaminated | |
| nhalation | Remove from | exposure, lie down. | Remove to fresh | air. Get medical attention. | |
| ngestion | Clean mouth w | vith water. Get medi | cal attention. | | |
| Most important symptoms and effects | No information | available. | | | |
| Notes to Physician | Treat symptom | natically | | | |
| | 5. Fir | e-fighting me | easures | | |
| | | | | | |
| Suitable Extinguishing Media | Water spray. C | arbon dioxide (CO |). Dry chemical. | Chemical foam. | |
| Insuitable Extinguishing Media | No information | available | | | |
| Flash Point Method - | No information No information | | | | |
| Autoignition Temperature Explosion Limits | No information | available | | | |
| Upper | No data availa | | | | |
| Lower Sensitivity to Mechanical Impact | No data availa No information | | | | |
| Sensitivity to Static Discharge | No information | | | | |
| Specific Hazards Arising from the C Keep product and empty container awa | | d sources of ignition | ı. | | |
| Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monox Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear. | ns for Éirefigh | ters | MSHA/NIOSH (; | approved or equivalent) and full | |
| NFPA Health 1 | Flammabili 1 | ty | Instability 0 | Physical hazards N/A | |
| | 6. Accide | ental release | e measures | S | |
| Personal Precautions Environmental Precautions | | ate ventilation. Use 2 for additional Ecol | | ve equipment as required. n. | |
| lethods for Containment and Clean Jp | | nation. Sweep up ar enter the environmer | | itable containers for disposal. Do not le | |

7. Handling and storage

| Handling | Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. | | | | |
|---|---|--|--|--|--|
| Storage. | Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents. | | | | |
| 8. E | xposure controls / personal protection | | | | |
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies. | | | | |
| Engineering Measures Personal Protective Equipment | None under normal use conditions. | | | | |
| Eye/face Protection | 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 and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure. | | | | |
| Respiratory Protection | No protective equipment is needed under normal use conditions. | | | | |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. | | | | |

9. Physical and chemical properties

| Solid White Odorless No information available 7.0-8.5 282 °C / 539.6 °F |
|--|
| Odorless No information available 7.0-8.5 |
| No information available 7.0-8.5 |
| 7.0-8.5 |
| |
| 282 °C / 539.6 °F |
| |
| No information available |
| No information available |
| Not applicable |
| No information available |
| |
| No data available |
| No data available |
| No information available |
| Not applicable |
| No information available |
| No information available |
| No data available |
| No information available |
| No information available |
| Not applicable |
| C6 H9 N3 O2 |
| 155.16 |
| |

10. Stability and reactivity

| Reactive Hazard | None known, based on information available | | |
|---------------------|--|--|--|
| Stability | Stable under normal conditions. | | |
| Conditions to Avoid | Avoid dust formation. Incompatible products. | | |

| Incompatible Materials | erials Strong oxidizing agents | | | | | | | |
|---|---|---|--|---------------------|--------------------|----------------------|--|--|
| Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2) | | | | | | | | |
| Hazardous Polymerizati | on | No information ava | ilable. | | | | | |
| Hazardous Reactions | | None under normal processing. | | | | | | |
| | | 11. Toxico | logical info | ormation | | | | |
| Acute Toxicity | | | | | | | | |
| Product Information Component Information | 1 | | | | | | | |
| Component | | LD50 Oral | | LD50 Dermal | LC50 | Inhalation | | |
| L-Histidine | | LD50 > 15 g/kg (Rat | :) | Not listed | Nc | ot listed | | |
| Toxicologically Synergis Products | stic | No information ava | ilable | | | | | |
| Delayed and immediate | effects as we | ell as chronic effe | cts from short an | d long-term expos | ure | | | |
| Irritation | | No information ava | ilable | | | | | |
| Sensitization | | No information ava | ilable | | | | | |
| Carcinogenicity | ty The table below indicates whether each agency has listed any ingredient as a carcinogen. | | | | | | | |
| | | | | | | | | |
| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico | | |
| L-Histidine | 71-00-1 | Not listed | Not listed | ACGIH Not listed | OSHA Not listed | Mexico Not listed | | |
| | 71-00-1 | | Not listed | | | | | |
| L-Histidine | 71-00-1 | Not listed | Not listed ilable | | | | | |
| L-Histidine Mutagenic Effects | 71-00-1 | Not listed No information ava | Not listed ilable ilable. | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects | 71-00-1 | Not listed No information ava No information ava | Not listed ilable ilable. ilable. | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects | 71-00-1 | Not listed No information ava No information ava No information ava | Not listed ilable ilable. ilable. | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure | 71-00-1 Jre | Not listed No information ava No information ava No information ava No information ava None known | Not listed iilable iilable. iilable. iilable. | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposure | 71-00-1 Jre | Not listed No information ava No information ava No information ava No information ava None known None known None known | Not listed iilable iilable. iilable. iilable. | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposur Aspiration hazard Symptoms / effects,bot | 71-00-1 ure h acute and | Not listed No information ava No information ava No information ava No information ava None known None known None known | Not listed iilable iilable. iilable. iilable. iilable | | | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposur Aspiration hazard Symptoms / effects,bot delayed | 71-00-1 In acute and ormation | Not listed No information ava No information ava No information ava No information ava None known None known No information ava No information ava | Not listed iilable iilable. iilable. iilable iilable | | Not listed | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposure STOT - repeated exposure STOT - repeated exposure STOT - repeated exposure Stor - rep | 71-00-1 In acute and ormation | Not listed No information ava No information ava No information ava No information ava None known No information ava No information ava No information ava The toxicological p | Not listed iilable iilable. iilable. iilable iilable | Not listed | Not listed | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposur STOT - repeated exposur Aspiration hazard Symptoms / effects,bot delayed Endocrine Disruptor Info Other Adverse Effects | 71-00-1 ure h acute and ormation | Not listed No information ava No information ava No information ava No information ava None known No information ava No information ava No information ava The toxicological p | Not listed ilable ilable. ilable. ilable ilable ilable roperties have not | Not listed | Not listed | | | |
| L-Histidine Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposur STOT - repeated exposur Aspiration hazard Symptoms / effects,bot delayed Endocrine Disruptor Info Other Adverse Effects | 71-00-1 ure h acute and ormation | Not listed No information ava No information ava No information ava No information ava None known No information ava No information ava No information ava The toxicological p | Not listed ilable ilable. ilable. ilable ilable ilable roperties have not | Not listed | Not listed | | | |

Bioaccumulation/ Accumulation

| 13. Disposal considerations | | | | |
|-----------------------------|---|--|--|--|
| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. | | | |
| 14. Transport information | | | | |

| 14. Transport Information | | | | |
|---------------------------|----------------------------|--|--|--|
| DOT | Not regulated | | | |
| DOT TDG | Not regulated | | | |
| <u>IATA</u> | Not regulated | | | |
| IMDG/IMO | Not regulated | | | |
| | 15. Regulatory information | | | |

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-------------|---------|------|--|--------------------------------|
| L-Histidine | 71-00-1 | Х | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-------------|---------|-----|------|-----------|-------|------|------|------|-------|----------|
| L-Histidine | 71-00-1 | Х | - | 200-745-3 | Х | Х | Х | Х | Х | KE-19948 |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

| SARA 313 | Not applicable |
|---|---|
| SARA 311/312 Hazard Categories | See section 2 for more information |
| CWA (Clean Water Act) | Not applicable |
| Clean Air Act | Not applicable |
| OSHA - Occupational Safety and Health Administration | Not applicable |
| CERCLA | Not applicable |
| California Proposition 65 | This product does not contain any Proposition 65 chemicals. |
| U.S. State Right-to-Know Regulations | Not applicable |
| U.S. Department of Transportation | |

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Reportable Quantity (RQ):

| DOT Marine Pollutant DOT Severe Marine Pollutant | N N |
|---|--|
| U.S. Department of Homeland Security | This product does not contain any DHS chemicals. |
| Other International Regulations | |

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|-------------|---------|---|--|-------------------------------|--|
| L-Histidine | 71-00-1 | Not applicable | Not applicable | Not applicable | Not applicable |
| | | | | | |
| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
| L-Histidine | 71-00-1 | Not applicable | Not applicable | Not applicable | Not applicable |

| 16. Other information | |
|--|--|
| Prepared By | Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com |
| Creation Date Revision Date Print Date Revision Summary | 17-Sep-2014 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). |

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS