

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)



# spectrum®

Revision date 05-March-2025

Revision Number 3

## 1. Identification

### Product identifier

**Product Name** L-ARGININE MONOHYDROCHLORIDE, FCC

### Other means of identification

**Product Code(s)** A1338

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** No information available

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Spectrum Chemical Mfg. Corp.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

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

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

### Hazard statements

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

**Other information**

No information available.

**3. Composition/information on ingredients****Substance**

| Chemical name                | CAS No.   | Weight-% |
|------------------------------|-----------|----------|
| L-Arginine Monohydrochloride | 1119-34-2 | 100      |

**4. First-aid measures****Description of first aid measures**

|              |  |
|--------------|--|
| Inhalation   | Remove to fresh air.   |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash skin with soap and water.   |
| Ingestion    | Rinse mouth.   |

**Most important symptoms and effects, both acute and delayed**

|                     |                           |
|---------------------|---------------------------|
| Symptoms            | No information available. |
| Effects of Exposure | No information available. |

**Indication of any immediate medical attention and special treatment needed**

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

**5. Fire-fighting measures**

|  |  |
|--|--|
| Suitable Extinguishing Media                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| Unsuitable extinguishing media                                 | Do not scatter spilled material with high pressure water streams.  |
| Specific hazards arising from the chemical                     | No information available.  |
| Explosion data   |  |
| Sensitivity to mechanical impact                               | None.  |
| Sensitivity to static discharge                                | None.  |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### Precautions for safe handling

**Technical Measures/Precautions:** Provide sufficient air exchange and/or exhaust in work rooms Avoid dust formation Keep away from incompatible materials

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Sensitive to light. Store in light-resistant containers.

**Incompatible Materials:** Strong oxidizing agents

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

|                                 |   |
|---------------------------------|---|
| <b>Hand protection</b>          | Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.  |
| <b>Skin and body protection</b> | Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.   |
| <b>Respiratory protection</b>   | Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                       |                                |
|-----------------------|--------------------------------|
| <b>Physical state</b> | Solid                          |
| <b>Appearance</b>     | Crystals or Crystalline powder |
| <b>Color</b>          | White                          |
| <b>Odor</b>           | Odorless                       |
| <b>Odor threshold</b> | No information available       |

| <u>Property</u>                                | <u>Values</u>                   | <u>Remarks • Method</u> |
|--|---------------------------------|-------------------------|
| <b>pH</b>                                      | 5.7 (200 g/L) @ 20°C            | None known              |
| <b>pH (as aqueous solution)</b>                |                                 | None known              |
| <b>Melting point / freezing point</b>          | 219 - 230 °C / 426.2 - 446 °F   | None known              |
| <b>Initial boiling point and boiling range</b> | No data available               | None known              |
| <b>Flash point</b>                             | No data available               | None known              |
| <b>Evaporation rate</b>                        | no data available               | None known              |
| <b>Flammability</b>                            | no data available               | None known              |
| <b>Flammability Limit in Air</b>               |                                 | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available               |                         |
| <b>Lower flammability or explosive limits</b>  | No data available               |                         |
| <b>Vapor pressure</b>                          | No data available               | None known              |
| <b>Relative vapor density</b>                  | No data available               | None known              |
| <b>Relative density</b>                        | 1.4                             | None known              |
| <b>Water solubility</b>                        | Soluble in water                | None known              |
| <b>Solubility(ies)</b>                         | Slightly soluble in hot alcohol | None known              |
| <b>Partition coefficient</b>                   | No data available               | None known              |
| <b>Autoignition temperature</b>                | No data available               | None known              |
| <b>Decomposition temperature</b>               |                                 | None known              |
| <b>Kinematic viscosity</b>                     | no data available               | None known              |
| <b>Dynamic viscosity</b>                       | No data available               | None known              |
| <b>Other information</b>                       |                                 |                         |
| <b>Explosive properties</b>                    | No information available        |                         |
| <b>Oxidizing properties</b>                    | No information available        |                         |
| <b>Softening point</b>                         | No information available        |                         |
| <b>Molecular weight</b>                        | 210.66                          |                         |
| <b>VOC content</b>                             | No information available        |                         |
| <b>Liquid Density</b>                          | No information available        |                         |
| <b>Bulk density</b>                            | No information available        |                         |

## 10. Stability and reactivity

|                   |                           |
|-------------------|---------------------------|
| <b>Reactivity</b> | No information available. |
|-------------------|---------------------------|

|   |   |
|---|---|
| <b>Chemical stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Conditions to avoid</b>                | None known based on information supplied. |
| <b>Incompatible materials</b>             | None known based on information supplied. |
| <b>Hazardous decomposition products</b>   | Spontaneous polymerisation.               |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** No information available.

**Numerical measures of toxicity** No information available

| Chemical name                             | Oral LD50         | Dermal LD50 | Inhalation LC50 |
|---|-------------------|-------------|-----------------|
| L-Arginine Monohydrochloride<br>1119-34-2 | = 12 g/kg ( Rat ) | -           | -               |

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

|                          |                           |
|--------------------------|---------------------------|
| STOT - repeated exposure | No information available. |
| Aspiration hazard        | No information available. |
| Other adverse effects    | No information available. |
| Interactive effects      | No information available. |

## 12. Ecological information

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | The environmental impact of this product has not been fully investigated. |
| Persistence and degradability | No information available.   |
| Bioaccumulation               | There is no data for this product.  |
| Other adverse effects         | No information available.   |

## 13. Disposal considerations

### Disposal methods

|                                     |   |
|-------------------------------------|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Do not reuse empty containers.  |

## 14. Transport information

|                   |               |
|-------------------|---------------|
| <u>DOT</u>        | Not regulated |
| <u>TDG</u>        | Not regulated |
| <u>MEX</u>        | Not regulated |
| <u>ICAO (air)</u> | Not regulated |
| <u>IATA</u>       | Not regulated |
| <u>IMDG</u>       | Not regulated |
| ADR               | Not regulated |
| RID               | Not regulated |

## 15. Regulatory information

**International Inventories**

|                      |   |
|----------------------|---|
| <b>TSCA</b>          | Complies  |
| <b>DSL/NDL</b>       | Complies  |
| <b>EINECS/ELINCS</b> | Complies  |
| <b>ENCS</b>          | This product complies with ENCS:  |
| <b>IECSC</b>         | This product complies with China:   |
| <b>KECL</b>          | Complies  |
| <b>PICCS</b>         | Complies  |
| <b>AIIC</b>          | All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). |
| <b>NZIoC</b>         | Does not comply   |
| <b>TCSI</b>          | Does not comply   |

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**TCSI** - Taiwan Chemical Substance Inventory**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CAA (Clean Air Act)**

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**International Inventories**

| Chemical name | CAS No.   | U.S. TSCA     | KOREA KECL          | Philippines (PICCS) | Japan ENCS                      | IECSC              | AIIC | EINECS-No.           |
|---------------|-----------|---------------|---------------------|---------------------|---------------------------------|--------------------|------|----------------------|
|               | 1119-34-2 | PresentACTIVE | Present<br>KE-01904 | Present             | Present<br>(1)-215,(2)-13<br>07 | Present<br>[21125] | X    | Present<br>214-275-1 |

**U.S. Regulations**

| Chemical name                | Louisiana Reportable Quantity List for Pollutants: | California Directors List of Hazardous Substances: | FDA - Food Additives Generally Recognized as Safe (GRAS): | FDA - Direct Food Additives | FDA - 21 CFR - Total Food Additives - List Sourced from EAFUS |
|------------------------------|--|--|---|-----------------------------|---|
| L-Arginine Monohydrochloride |  |  |   | 21 CFR 172.320              |   |

**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)

| Chemical name | CAS No.   | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------|-----------|------------|------------------------|----------------------------|-------------------------------|
|               | 1119-34-2 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

**CERCLA/SARA**

CERCLA

TSCA

| Chemical name | CAS No.   | Hazardous Substances RQs | TPQ | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category |
|---------------|-----------|--------------------------|-----|--|---------------------------------|
|               | 1119-34-2 |                          |     | None   | None                            |

**U.S. TSCA**

| Chemical name | CAS No.   | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---------------|-----------|---|--|
|               | 1119-34-2 | Not Applicable  | Not Applicable                         |

**Canada****WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Component  
L-Arginine Monohydrochloride  
1119-34-2 ( 100 )

WHMIS 2015 Hazard Classification  
Not a dangerous product according to HPR classification criteria



**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

| Chemical name | CAS No.   | Canada (DSL) | Canada (NDSL) |
|---------------|-----------|--------------|---------------|
|               | 1119-34-2 | Present      | Not Listed    |

| Chemical name | CAS No.   | CEPA Schedule I - Toxic Substances                          |
|---------------|-----------|---|
|               | 1119-34-2 | Not listed  |
| Chemical name | CAS No.   | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|               | 1119-34-2 | Not listed  |

| Chemical name | CAS No.   | EU GHS - SV - CLP (1272/2008) |
|---------------|-----------|-------------------------------|
|               | 1119-34-2 |                               |

**S -phrase(s)**

none

| Chemical name                | CAS No.   | Classification according to Directive 67/548/EEC or 1999/45/EC | Concentration Limits: | Safety Phrases |
|------------------------------|-----------|--|-----------------------|----------------|
| L-Arginine Monohydrochloride | 1119-34-2 |  | No information        |                |

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

**Indication of danger:**

Not dangerous

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:  
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
 STOT: Specific Target Organ Toxicity  
 ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitizers                 |      |                                  |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 05-March-2025

**Revision Note** No information available.

**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 Safety Data Sheet**