



# Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

**MATERIAL SAFETY DATA SHEET**

**MSDS**

Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

## Section 1 - Chemical Product and Company Identification

**Product Name : L-ARGININE MONOHYDROCHLORIDE**

**Synonyms:** None

**CAS No.:** 1119-34-2

**Molecular Weight:** 210.66

**Chemical Formula:**  $\text{NH}_2\text{C}(\text{:NH})\text{NH}(\text{CH}_2)_3\text{CH}(\text{NH}_2)$

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
L-(+)-Arginine Monohydrochloride	1119-34-2	98 - 100%	YES

## Section 3 - Hazardous Identification

### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

## Potential Health Effects

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### **Inhalation:**

Not expected to be a health hazard. Can cause breathing difficulty if inhaled in large amounts.

### **Ingestion:**

Not expected to be a health hazard via ingestion. Large amounts may produce gastric upset.

### **Skin Contact:**

No adverse effects expected. May cause mild irritation and redness.

### **Eye Contact:**

No adverse effects expected but dust may cause mechanical irritation.

### **Chronic Exposure:**

No information found.

### **Aggravation of Pre-existing Conditions:**

No information found.

## Section 4 - First Aid Measures

### **Inhalation:**

Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

### **Ingestion:**

Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

### **Skin Contact:**

Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

### **Eye Contact:**

Wash thoroughly with running water. Get medical advice if irritation develops.

## Section 5 - Fire Fighting Measures

### **Fire:**

Not expected to be a fire hazard.

### **Explosion:**

No information found.

### **Fire Extinguishing Media:**

No information found.

### **Special Information:**

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

## Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## Section 8 - Exposure Controls, Personal Protection

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

**WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

### **Appearance:**

White crystalline solid.

### **Odor:**

Odorless.

### **Solubility:**

Appreciable (> 10%)

### **Specific Gravity:**

1.42

### **pH:**

No information found.

### **% Volatiles by volume @ 21C (70F):**

0

### **Boiling Point:**

No information found.

### **Melting Point:**

235C (455F) Decomposes.

### **Vapor Density (Air=1):**

No information found.

**Vapor Pressure (mm Hg):** No information found.

### **Evaporation Rate (BuAc=1):**

No information found.

## Section 10 - Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

May produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Strong oxidizers.

**Conditions to Avoid:**

Incompatibles.

## Section 11 - Toxicological Information

Oral rat LD50: 12 gram/kg. Investigated as a reproductive effector.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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L-(+)-Arginine Monohydrochloride (1119-34-2)		No	No None
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## Section 12 - Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:**

No information found.

## Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## Section 14 - Transport Information

Not regulated.

## Section 15 - Regulatory Information

-----\Chemical Inventory Status - Part 1\-----  
 Ingredient TSCA EC Japan Australia  
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 L-(+)-Arginine Monohydrochloride (1119-34-2) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----  
 --Canada--  
 Ingredient Korea DSL NDSL Phil.  
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 L-(+)-Arginine Monohydrochloride (1119-34-2) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----  
 -SARA 302- -----SARA 313-----  
 Ingredient RQ TPQ List Chemical Catg.  
 -----  
 L-(+)-Arginine Monohydrochloride (1119-34-2) No No No No

-----\Federal, State & International Regulations - Part 2\-----  
 -RCRA- -TSCA-  
 Ingredient CERCLA 261.33 8(d)  
 -----  
 L-(+)-Arginine Monohydrochloride (1119-34-2) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
 SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No  
 Reactivity: No (Pure / Solid)

## Section 16 - Additional Information

**NFPA Ratings:** Health: **0** Flammability: **0** Reactivity: **0**

**Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:**

None.

**Label First Aid:**

Not applicable.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 3.