



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Common Name: L-Arginine Hydrochloride
Chemical Name: 2-Amino-5-guanidinovaleric acid monohydrochloride
Synonyms: Arginine Hydrochloride; Arginine Monohydrochloride
Chemical Family: Amino Acid
Chemical Formula: $C_6H_{14}N_4O_2 \cdot HCl$
CAS Number: 1119-34-2
EINECS Number: 214-275-1
Supplier: Gurvey & Berry Co. Inc.
310 Judson Street, Unit #15
Toronto, ON, Canada, M8Z 5T6
Tel: (416) 259-5700 Fax: (416) 259-5417
E-mail: msds@gurveyberry.com
Emergency Telephone: Canutec 613-996-6666

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS#	%	Exposure Limits		Acute Toxicity LD ₅₀ (Oral, Dermal, I.V.)
			OSHA (pel)	ACGIH (tlv)	
L-Arginine HCl	1119-34-2	>98	n/d	n/d	Oral - Rat 12 g/kg I.P. - Rat 3793 mg/kg

Other Information: n/a

3. HAZARD IDENTIFICATION

Environmental Hazards: n/a

Human Health Hazards

Routes of Entry: Inhalation: Yes Skin Contact: Yes Ingestion: Yes

Signs and Symptoms of Exposure

Ingestion: May be harmful if ingested
Inhalation: May cause irritation of the respiratory tract.
Skin Contact: May cause irritation.
Eye Contact: May cause irritation
Medical Conditions Aggravated
By Exposure: n/a

Toxicological Information

Acute Toxicity LD₅₀: As listed in section 2

Skin Corrosive Effect:	n/a
Chemicals Listed as Carcinogenic or Potential Carcinogen:	None
IARC Monograph:	None
OSHA:	None
NTP:	None
Other:	None
Mutagenic Effects Data:	None
Reproductive Effects Data:	None

4. FIRST AID MEASURES

General:	Remove person from area of exposure
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Inhalation:	Remove person from area of exposure to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention.
Skin Contact:	Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of the chemical remains (at least 15-20 minutes). Get medical attention immediately.
Eye Contact:	Wash eyes immediately with large amounts of water or normal saline, occasionally lifting the upper and lower lids, until no evidence of the chemical remains (at least 15-20 minutes). Get medical attention immediately.
Protection of First Aiders:	Use appropriate personal protective equipment.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical or carbon dioxide. For larger fires use water spray, fog or regular foam.
Unsuitable Extinguishing Media:	n/d
Hazardous Thermal Decomposition Products:	Thermal decomposition may emit toxic fumes of chlorides, and carbon monoxide and dioxide.
Protection of Firefighters:	Use appropriate personal fire fighting equipment. Move container from fire area if possible. Avoid breathing vapors or dusts. Keep upwind.

6. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:	Provide good local exhaust or general dilution ventilation system.
Hygienic Measures:	Follow good manufacturing practices.
Occupational Exposure Limits:	
ACGIH (tlv):	n/d

OSHA (pel):	n/d
<u>Personal Protective Equipment</u>	
Respiratory System:	Use of a dust mask in areas where the levels of dusts are quite high is recommended.
Skin and Body:	Wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Protective gloves are also recommended.
Eyes:	Use of splash proof or dust resistant safety goggles and a face shield are recommended to prevent contact with this substance.

7. HANDLING AND STORAGE

Handling:	Use appropriate personal protective equipment.
Storage:	Observe all federal, state, and local regulations when storing this substance.

8. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	As listed in section 6
Environmental Precautions:	No special precautions are indicated.
Methods for Cleaning Up:	Sweep up spilled material and place into a suitable container for later disposal.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystals or crystalline powder
Color:	White
Odor:	Practically odorless
Odor Threshold:	n/a
Molecular Weight:	210.70
Boiling Point:	235 C
Melting Point:	218 C
Specific Gravity (H ₂ O=1):	1.42
Decomposition Temperature:	235 C
Bulk Density:	n/a
Mean Particle Size:	n/a
pH:	n/a
Solubility in Water:	Freely soluble in water.
Solubility in Other Agents:	Very slightly soluble in alcohol.
Insoluble In:	Practically insoluble in ether.
Evaporation Rate (ethyl ether=1):	n/a
Vapor Pressure (mmHg):	n/a
Vapor Density (air=1):	n/a
Flash Point:	n/a
Auto-ignition Temperature:	n/a
Explosion Properties:	Negligible fire hazard when exposed to heat or flame.
Oxidation Properties:	n/a
Other Properties:	n/a

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Protect from light.
Materials to Avoid:	None known.
Hazardous Decomposition Products:	Thermal decomposition may emit toxic fumes of chlorides, carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Has not been reported to occur under normal temperatures and pressures.

11. ECOLOGICAL INFORMATION

Chemical Name:	n/a
Persistence:	n/a
Degradability:	n/a

12. DISPOSAL CONSIDERATIONS

Wastes of Residues:	Observe all federal, provincial, and local regulations when disposing of this substance.
Contaminated Packaging:	As above.

13. TRANSPORT INFORMATION

Not dangerous for transport.

14. REGULATORY INFORMATION

TSCA

TSCA Inventory:	Listed
Health and Safety Reporting List:	n/a
Chemical Test Rules:	n/a
Section 12b:	n/a
Significant New Use Rule:	n/a

SARA

Section 302 (RQ):	Not listed
Section 302 (TPQ):	Not listed
Section 313:	Not listed

Clean Air Act:	n/a
Clean Water:	n/a
OSHA:	Not listed

European/International Regulations:

Hazard Symbols:	n/a
Risk Phrases:	n/a
Safety Phrases:	n/a

CANADA

DSL/NDSL:	Listed on the DSL
WHIMIS Classification:	Not controlled.
Ingredient Disclosure List:	n/a

15. OTHER INFORMATION

This information is based upon knowledge currently available.

More detailed information on the physical and chemical properties can be requested from the supplier. To the best of our knowledge, the information contained herein is accurate and complete. However, this should not be construed to imply any warranty or guarantee. Gurvey & Berry Co. Inc. shall not be held liable for any damage resulting from handling or from contact with the above chemical.

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This document will only be updated as needed.

N/A = not available.

N/D = not determined.