



Material Safety Data Sheet

I - Product Identification:

Product Name: Arginine (L), USP (L-Arginine) *Code:* 0502
Empirical Formula: C₆H₁₄N₄O₂ *CAS#:* 74-79-3
Chemical Name: L-Arginine
Uses: Ammonia detoxicant (hepatic failure); diagnostic aid (pituitary function).

II - Toxicological Information:

Irritancy: May cause irritation to the eyes, skin and by inhalation.
Adverse Effects: Prolonged skin contact may cause dermatitis and/or defatting.
Toxicity Data: N/A

III - Physical Data:

Physical State: Liquid Solid Gas
Description: White practically odorless crystals.
Solubility: Freely soluble in water; sparingly soluble in alcohol; insoluble in ether.
Other Physical Properties: mw: 174.20 mp: 216°C
USP Specifications:
 Identification<197K>: Conforms to the std test Residue on ignition<281>: <=0.3%
 Specific rotation<781S>: Between +26.3° and +27.7° Sulfate<221>: <=0.03%
 Loss on drying<731>: <=0.5% Heavy Metals<231>I: <=0.0015%
 Chloride<221>: <=0.05% Chromatographic purity: <=0.5% (individual impurity)
 Iron<241>: <=0.003 % <=2.0% (total impurities)
 OVI<467>I: Meets the requirements Assay (on dried basis): 98.5-101.5%
 Packaging and storage: Preserve in well-closed containers.

IV - Fire And Explosion Hazards:

Flammability: Non-flammable.
Flash Point: 200+°F
Extinguishing Media: Carbon dioxide, dry chemical, universal type foam.
Fire-Fighting: Evacuate unprotected and untrained personnel. Trained fire-fighting personnel should be equipped with self-contained breathing apparatus and full protective gear.

V - Reactivity Data:

Stability: N/A
Incompatibility: Highly reactive chemical oxidants.
Hazardous Decomp. Products: Carbon monoxide and/or carbon dioxide.
Hazardous Polymerization: Will not occur.

VI - Preventive Measures:

Personal Protective Equipment: Wear appropriate NIOSH-approved respirator, chemical resistant gloves and safety glasses. If splashing may occur, the use of splash goggles or face shield is recommended.
Specific Engineering Controls: Ventilation meeting ACGIH standards should be employed.
Spills & Leaks: Remove any sources of flame or sparks. If in a confined area NIOSH-approved respiratory protection may be required. Absorb spills on vermiculite or other suitable absorbent material and remove to an approved disposal container.
Waste Disposal: Dispose of in accordance with local, state, and federal regulations.
Storage: Preserve in well-closed containers.

VII - First Aid Measures:

Eyes: Flush with copious amounts of water for 15 minutes. Call a physician immediately.
Skin: Wash with soap & water. Flush with large quantities of water. If irritation persists call a physician.
Ingestion: Administer water or milk to dilute. Contact a physician or local poison center immediately. Do not induce vomiting.
Inhalation: Remove to fresh air and call a physician if necessary.



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NOTE: If victim is unconscious, never induce vomiting nor give liquids. Place victim in a stable side position and keep warm.

Ecological Data: N/A

Hazardous Ingredients: N/A

References: Available on request