

Material Safety Data Sheet L-Arginine

MSDS# 123	79				
		Section 1 - Chemi	cal Product and Company Identification		
MSDS Name: L-Arginine					
Catalog Numbers: BP2505-1, BP2505-100			P2505-500, BP370-100, BP370-100LC, NC9170545		
Synonyms: Arginine, L-; Arginine; L-(			-Arginine; S-(+)-Arginine		
Company Identification:			Fisher Scientific		
			One Reagent Lane Fair Lawn, NJ 07410		
For information in the US, call:			201-796-7100		
Emergency Number US:			201-796-7100		
CHEMTREC Phone Number, US:			800-424-9300		
		-	nposition, Information on Ingredients		
 CAS#:		 74-79-3			
Chemical Name			L-Arginine		
%:		>98.5			
EINECS#:		200-811-1			
	10 1 1				
	zard Symbols:				
Ris	sk Phrases:	None listed			
			n 3 - Hazards Identification		
			ERGENCY OVERVIEW		
	e eye and skin i		oxicological properties of this material have not been fully investigated. spiratory and digestive tract irritation. Target Organs: No data found.		
		itation			
-	May cause eye irritation.				
M	May cause skin irritation. May cause erythema (redness) and edema (fluid buildup) with crusting and scaling.				
	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.				
	ay cause respira vestigated.	tory tract irritation. The	e toxicological properties of this substance have not been fully		
Chronic: La	boratory experi	ments have resulted in	mutagenic effects.		
		Secti	on 4 - First Aid Measures		
Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Ge medical aid.				
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.				
Ingestion:	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.				
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.				
Notes to Physician:					

## Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved

Get

or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with General air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or Information: combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water Extinguishing Media: inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam. Autoignition Not applicable. Temperature: Flash Point: Not applicable. Explosion Limits: Lower: Not available Explosion Not available Limits: Upper: NFPA Rating: health: 1; flammability: 0; instability: 0; Section 6 - Accidental Release Measures General Use proper personal protective equipment as indicated in Section 8. Information:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately,Spills/Leaks:observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide<br/>ventilation. Do not get water inside containers.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep

Handling: vontration: Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Reep container tightly closed. Avoid ingestion and inhalation. Store protected from light. Do not allow contact with water. Keep from contact with moist air and steam.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Store protected from light.

Section 8 - Exposure Controls, Personal Protection

+	ACGIH	NIOSH	+ +  OSHA - Final PELs
   L-Arginine +	none listed	none listed	  none listed   ++

OSHA Vacated PELs: L-Arginine: None listed

**Engineering Controls:** 

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: none reported

pH: 11.4

Vapor Pressure: Negligible.

Vapor Density: Not available

	Evaporation Rate: Negligible.			
Viscosity: Not available				
	Boiling Point: Not available			
	Freezing/Melting Point: 223 - 224 deg C			
	Decomposition Temperature:			
	Solubility in water: Soluble			
	Specific Gravity/Density: 1.3 (water=1)			
	Molecular Formula: C6H14N4O2			
	Molecular Weight: 174.1236			
	Section 10 - Stability and Reactivity			
Chemical Stability:	Stable at room temperature in closed containers under normal storage and handling conditions. Materials containing similar functional groups can decompose at elevated temperatures.			
Conditions to Avoi	d: High temperatures, incompatible materials, light, dust generation, moisture.			
Incompatibilities wi Other Materials	trong oxidizing agents, moisture.			
Hazardous Decomj Products	position Nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide.			
Hazardous Polymer	rization Has not been reported.			
	Section 11 - Toxicological Information			
RTECS#:	CAS# 74-79-3: CF1934200			
LD50/LC50:	RTECS: Not available.			
Carcinogenicity:	L-Arginine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.			
Other:	No information found.			
	Section 12 - Ecological Information			
Not available				
	Section 13 - Disposal Considerations			
Dispose of in a man	nner consistent with federal, state, and local regulations.			
	Section 14 - Transport Information			
Hazard Class:	regulated as a hazardous material			
UN Number:				
Packing Group: Canada TDG				
Shipping Name: Not a	vailable			
Hazard Class:				
UN Number:				
Packing Group:				
	Section 15 - Regulatory Information			
European/Internation	onal Regulations			
European Lab	beling in Accordance with EC Directives			
Hazard S	Symbols:Not available			
Risk Phr				
Safety P				
<sup>*</sup>	r Danger/Protection)			
	/4-79-3:0			
Canada				
CAS# 74-79-3 is listed on Canada's DSL List				

Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. CAS# 74-79-3 is not listed on Canada's Ingredient Disclosure List.

## US Federal

## TSCA

CAS# 74-79-3 is listed on the TSCA Inventory.

## Section 16 - Other Information MSDS Creation Date: 7/13/1999 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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