

Material Safety Data Sheet

L-Arginine nitrate



Section 1-Chemical Product and Company Identification

MSDSName: L-Arginine nitrate

Synonyms:

Company Identification:

Company	Ingredients4u PTE. LTD.
Telephone	+86-21-31358882
Fax	+86-21-31358998

Section 2-Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
749-79-3	L-Arginine nitrate	ca. 100	

Section 3-Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless to white solid.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause fetal effects. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation

Skin: May cause skin irritation

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated

Chronic: May cause fetal effects.

Section 4-First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get 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: Treat symptomatically and supportively.

Section 5-Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6-Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7-Handling and Storage

Handling: 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 container tightly closed. Avoid ingestion and inhalation.

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

Section 8-Exposure Controls, Personal Protection

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

Chemical Name	ACGIH	NIOSH	OSHA -Final PELs
L-Arginine nitrate	none listed	none listed	none listed

OSHA Vacated PELs: L-Arginine nitrate : No OSHA Vacated PELs are listed for this chemical.

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: Solid

Appearance: colorless to white

Odor: odorless

pH: Not available

Vapor Pressure: Negligible.

Vapor Density: Not applicable

Evaporation Rate: Negligible

Viscosity: Not available.

Boiling Point: 161 deg C

Freezing/Melting Point: 118-156 deg C(dec)

Decomposition Temperature: 161 deg C

Solubility: Soluble

Specific Gravity/Density: Not available.

Molecular Formula: C₆H₁₅N₅O₅

Molecular Weight: 237.2138

Section 10-Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat

Incompatibilities with Other Materials: Strong oxidizing agents

Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11-Toxicological Information

RTECS#:

CAS# 749-79-3:CF1995500

LD50/LC50:

CAS#749-79-3:

Oral,rat:LD50=12 gm/kg;

Carcinogenicity:

CAS#749-79-3:Not listed by ACGIH,IARC,NTP,or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information available.

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

Section 12-Ecological Information

No information available.

Section 13-Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.Additionally,waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series:None listed.

RCRA U-Series:None listed

Section 14-Transport Information

14.1 UN number

ADR/RID:-IMDG:-IATA:-

14.2 UN proper shipping name

ADR/RID:Not dangerous goods

IMDG:Not dangerousgoods

IATA:Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID:-IMDG:-IATA:-

14.4 Packaging group

ADR/RID:-IMDG:-IATA:-

14.5 Environmental hazards

ADR/RID:no IMDG Marine pollutant:no IATA:no

14.6 Special precautions for user

no data available

Section 15-Regulatory Information

US FEDERAL

TSCA

CAS#749-79-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants

This material does not contain any Class 1 Ozone depletors

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS#749-79-3 is not present on state lists from CA,PA,MN,MA,FL,or NJ.

California Prop 65

California No Significant Risk Level:None of the chemicals in this product are listed

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK(Water Danger/Protection)

CAS#749-79-3:0

Canada-DSL/NDSL

CAS#749-79-3 is listed on Canada's DSL List

Canada-WHMIS

This product has a WHMIS classification of D2A

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.

Canadian Ingredient Disclosure List

Section 16-Additional Information

MSDS Creation Date:04/18/2022

Last Updated:04/18/2023

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 Haide 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 Haide has been advised of the possibility of such damages.