Safety Data Sheet---L-Arginine monohydrochloride AMN/ AQ·02-01

1. Product and Company Identification

Product name 2-Amino-5-guanidinovaleric acid monohydrochloride;
L-Arginine HCl

Company Hebei Amino Bio Technology Cc.,Ltd
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2. Composition/Information on ingredients

Characterization	water soluble Amino acid; food and feed additive
Chemical name	2-Amino-5-guanidinovaleric acid monohydrochloride;L-Arginine HCl
Synonyms	Arginine HCl
CAS number	1119-34-2
Chemical formula	C6H14N4O2.HCl
Molecular mass	210.66g/mol

3.Physical and Chemical Properties

Appearance	White crystals or crystalline powder, slightly characteristic taste
Solubility in water	730 g/L(20℃)
Melting Point	218
Density	1.42 g/cm3
Usage	Biologically significant amino acid.

4.First Aid Measures

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 to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

5.Handling and Storage

Storage

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

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

6.Hazards Identification

Inhalation

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

Skin

May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

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

EC Safety Phrase

S 22 24/25

7.Exposure Controls/Personal Protection

Personal Protection

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 a respirator's use.

Exposure Effects

May cause fetal effects.

8.Fire Fighting Measures

Fire Fighting

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. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

9.Accidental Release Measures

Small spills/leaks

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.

10.Stability and Reactivity

Stability

Stable under normal temperatures and pressures.

Incompatibilities

Strong oxidizing agents.

Decomposition

Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

11.Toxicological information

Acute toxicity LD50 : 12000mg/kg(oral-mouse)

12.Transport Information

HS Code 2925 290090

13.Date of adoption

AMN/ AQ·02-01 09/01/2023