Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Arginine Hydrochloride USP
Commercial Name Not available.
Product Use N/A
Restrictions On Use N/A

Product Code 30-2056

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Not available.

Signal Word NON-HAZARDOUS

Hazard Statement(s) N/A

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components N/A
% By Weight 100%
CAS# 1119-34-2
Molecular Weight 210.66 g/mole
Chemical Formula C6H14N4O2.HCl
Synonym(s) 2-Amino-5-guanidinovaleric acid hydrochloride

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Arginine hydrochloride	1119-34-2	100	Not available.	ORAL (LD50):Acute: 12000mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation Immediately relocate to a fresh air environment. Rinse mouth with water. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen and seek medical attention

Skin Contact Wash with soap and copious amounts of water. If irritation persists, seek medical attention.

Eye Contact Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If contact lenses are being worn, remove lenses and continue rinsing. Seek medical attention.

Ingestion Rinse mouth with water and seek medical attention.

Symptoms/Effects

Acute N/A

Delayed N/A

Immediate Medical Attention

Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, carbon dioxide, dry chemical powder/foam

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Upon combustion will result in carbon monoxide, carbon dioxide and nitrogen oxide being released.

Firefighters Special Equipment and Precautions

Not avaiable.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protection, Make spills wet to prevent the generation of dust and then, sweep up into a closed container. Environmental precautions: Do not discharge into sewer, river, underground water, etc. Methods and material for containment and cleaning up: After recovering, wash away spilled area with plenty of water.

Section 7: Handling and Storage

Precautions for safe handling: Follow good industrial practice in housekeeping and personal hygiene. Wear personal protective equipment as outlined in section 8. Conditions for safe storage, including any incompatibilities: Store in closed containers in a dry area. Avoid humidity, sunlight and high temperature.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available.

Engineering Controls Not available.

Personal Protection Respiratory protection: Dust mask or appropriate respirator. Utilize local exhaust ventilation. Protective gloves: Rubber Eye protection: Chemical safety goggles. Other protective equipment: Wear appropriate laboratory apparel, protect exposed skin.

Section 9: Physical and Chemical Properties

Appearance	White crystals or crystalline powder
Odor	Not available.
Odor Threshold	N/A

Melting Point	244°C (decomposes)	**pH**	10.5 - 12.0 (1.0 g in 20 mL of H2O)
Freezing Point	N/A	**Vapor Pressure**	Not applicable.
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	N/A	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	N/A	**Evaporation Rate**	N/A
Flash Point	Not available.	**Autoignition temperature**	N/A
Flammability	N/A	**Flammability or Explosive Limits:**	
		Lower	N/A
		Upper	N/A

Solubility(ies)	14.8 g / 100 g H2O (20°C)
Other	Not available.

Section 10: Stability and Reactivity

Reactivity	The following applies in general to flammable organic substances and mixtures; in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical Stability	Stable under normal temperature and pressures
Hazardous Polymerization	Nitrogen oxides (combustion)
Conditions to Avoid	Humidity and high temperature. In presence of moisture, will oxidize and darken.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Nitrogen oxides (combustion)

Section 11: Toxicological Information

RTECS CF1995500

Acute Toxicity
LD50 : 5.1 g/kg rat

Skin Corrosion/Irritation
May cause skin irritation

Serious Eye Damage/Irritation
May cause eye irritation

Respiratory or Skin Sensitization
N/A

Germ Cell Mutagenicity
N/A

Carcinogenicity
N/A

Reproductive Toxicity
N/A

Routes of Entry
Not available.

Symptoms Related to Exposure
N/A

Potential Health Effects
N/A

Target Organ(s) N/A

Section 12: Ecological Information

Ecotoxicity
Not available.

Persistance and Degradability
BOD = 0.645 g/g

Bioaccumulative Potential
N/A

Mobility in Soil
N/A

Other Adverse Effects
WGK class (Europe): 1 (group classification according to VwVwS / 17 May 1999, Germany)

Section 13: Disposal Considerations

Waste Disposal
Dispose of the material as you would with a non-hazardous material in accordance with all applicable national, state and local regulations.

Disposal of Container
N/A

Other Considerations
N/A

Section 14: Transport Information

DOT Classification
Avoid humidity and high temperature. Prevent damage of the container. 14.1. - 14.6. Not classified as dangerous in meaning of transport regulations. 14.7. Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC code.

Section 15: Regulatory Information

Regulations
Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;Pensylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

Other

WHMIS CLASS D-2A: Material causing other toxic (Canada) effects (VERY TOXIC).;DSCL (EEC) R36/38- Irritating to eyes and skin.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section 16: Other Information

Not available.