

## Section 1: Identification

<b>Common Name/Trade Name</b>	LYSINE HYDROCHLORIDE USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	L-Lysine-mono-hydrochloride	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Not a hazardous substance or mixture.
<b>Signal Word</b>	None
<b>Hazard Statement(s)</b>	N/A
<b>Pictogram(s)</b>	N/A
<b>Precautionary Statement(s)</b>	N/A
<b>Hazards Not Otherwise Classified</b>	No data available
<b>Ingredient(s) with Unknown Toxicity</b>	No data available

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	L-Lysine-mono-hydrochloride
<b>Common Name</b>	Lysine Hydrochloride
<b>CAS Number</b>	657-27-2
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	No data available.
<b>If Inhaled</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and contact a medical doctor.
<b>In Case of Skin Contact</b>	No known effect on skin contact, rinse with water for a few minutes.
<b>In Case of Eye Contact</b>	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.
<b>If Swallowed</b>	Wash out mouth water with water Contact a medical doctor for gross ingestion as precaution
<b>Most Important Symptoms and Effects</b>	Not determined

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media: water, carbon dioxide, foam, dry extinguishing media
<b>Special Hazards Arising From the Substance/Mixture</b>	hydrogen chloride, nitrous gases The substances/groups of substances mentioned can be released in case of fire.
<b>Special PPE and/or Precautions for Firefighters</b>	Wear a self-contained breathing apparatus.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Avoid dust formation.
<b>Methods and Materials Used for Containment</b>	Do not empty into drains.
<b>Cleanup Procedures</b>	For small amounts: Sweep/shovel up. For large amounts: Sweep/shovel up.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Avoid dust formation. The product is capable of dust explosion.
<b>Conditions for Safe Storage</b>	Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	None
<b>Appropriate Engineering Controls</b>	General industrial hygiene practice. Handle in accordance with good industrial hygiene and safety practice.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side-shields (frame goggles) (EN 166)
<b>PPE - Skin Protection</b>	Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Manufacturer's directions for use should be observed because of great diversity of types.
<b>PPE - Body Protection</b>	Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Manufacturer's directions for use should be observed because of great diversity of types.
<b>PPE - Respiratory Protection</b>	Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: Granular Color: white
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	approx. 5,0 - 6, (100 g/l)
<b>Relative Density</b>	Bulk density: approx. 650 - 700 kg/m <sup>3</sup>
<b>Melting Point/Freezing Point</b>	Melting point/range: 263 - 264°C
<b>Solubility</b>	Water solubility approx. 600 g/l (approx. 20°C)
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	No data available.
<b>Possibility of Hazardous Reactions</b>	Dust explosion hazard. No hazardous decomposition products if stored and handled as prescribed/indicated.
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	No data available.
<b>Hazardous Decomposition Products</b>	Thermal decomposition: >225°C. No hazardous decomposition products if stored and handled as prescribed/indicated.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50/oral/rat: 10,130 mg/kg
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	No data available
<b>Skin Corrosion/Irritation</b>	Primary skin irritation/rabbit: Non-irritant. Primary irritations of the mucous membrane/rabbit: non-irritant.
<b>Serious Eye Damage/Irritation</b>	No data available
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	No data available
<b>Carcinogenicity ACGIH</b>	No data available
<b>Carcinogenicity NTP</b>	No data available
<b>Carcinogenicity OSHA</b>	No data available
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	No further relevant information available.
<b>Persistence and Degradability</b>	No further relevant information available.
<b>Bio-accumulative Potential</b>	Accumulation in organisms is not to be expected.
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	Other ecotoxicological advice: At the present state of knowledge, no negative ecological effects are expected.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Observe national and local legal requirements.
<b>Waste Treatment Methods Packaging</b>	Observe national and local legal requirements.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	N/A

## Section 15: Regulatory Information

Regulations of the European union (Labeling) / National legislation/Regulations EG-Number: 211-519-9 Not subject to labeling Other regulations Not applicable

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	05/28/2019 17:02

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