



# **MATERIAL SAFETY DATA SHEET**

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### **Issue Date:**

1- Chemical Product Information and Company Identification.

Product Name:	: L-lysine monohydrochloride reference Standard, AnStan <sup>®</sup> .	
Synonym:	: H-Lys-OH·HCl.	
Product code:	: BS14376.	
CAS Number:	: 657-27-2.	
Company Name:	: Briti Scientific.	
Company Address:	: Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.	
	Telangana, India.	

# Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
657-27-2.	H-Lys-OH·HCl.	$C_6H_{14}N_2O_2{\cdot}HCI.$

# Section 3- Hazards Identification.

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Label Elements**

None required

### Hazards not otherwise classified (HNOC)

None identified

## Section 4- First Aid Measures.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects: No information available

Notes to Physician: Treat symptomatically



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# **Section 5- Fire Fighting Measures.**

Suitable Extinguishing Media: Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Flash Point:	No information available.
Method -	No information available.
Autoignition Temperature:	No information available.

### **Explosion Limits:**

Upper No data available Lower No data available

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2), Hydrogen chloride gas.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

# Section 6- Accidental Release Measures.

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions: Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

# Section 7- Handling and Storage.

Handling: Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.



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# Section 8- Exposure Control/Personal Protection.

**Exposure Guidelines**: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures**: Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.

### **Personal Protective Equipment**

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

### **Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice

# Section 9- Physical and Chemical Properties.

Appearance:	White powder to crystal.			
Odor:	Odorless.			
Odor Threshold:	No information available.			
pH:	No information available.			
Melting Point/Range:	262 °C.			
Boiling Point/Range:	No information available.			
Flash Point:	No information available.			
Evaporation Rate:	No information available.			
Flammability (solid,gas):	Not applicable:			
Flammability or explosive limits:				
Upper	No information available.			
Lower	No information available.			
Vapor Pressure:	No information available.			
Density:	1.28 g/cm <sup>3</sup> .			
Solubility:	Soluble in water.			
Partition coefficient; n-octanol/water: No data available.				
Autoignition Temperature:	No data available.			
<b>Decomposition Temperature:</b>	No data available.			
Viscosity:	No data available.			
Molecular:	$C_6H_{14}N_2O_2$ ·HCl.			
Molecular Weight:	182.65 g/mol.			



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# Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available. Stability: Stable under normal conditions. Conditions to Avoid: Incompatible products. Excess heat, Avoid dust formation. Incompatible Materials: Strong oxidizing agents Hazardous Decomposition Products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas. Hazardous Polymerization: Hazardous polymerization does not occur. Hazardous Reactions: None under normal processing. Section 11- Toxicological Information. **Acute Toxicity Product Information** No acute toxicity information is available for this product **Component Information** Component: LD50 Oral: LD50 = 10 g/kg (Rat).

LD50 Dermal: Not listed

LC50 Inhalation: LC50 > 5.51 g/m3 (Rat) 4h.

Toxicologically Synergistic Products: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation: No information available. Sensitization: No information available. **Mutagenic Effects:** No information available. **Reproductive Effects:** No information available. Developmental Effects: No information available. **Teratogenicity:** No information available. STOT - single exposure - None known STOT - repeated exposure - None known Aspiration hazard: No information available. Symptoms / effects, both acute and delayed: No information available. Endocrine Disruptor Information: No information available. Other Adverse Effects: The toxicological properties have not been fully investigated.

# Section 12- Ecological Information.

Ecotoxicity: Do not empty into drains.

Persistence and Degradability: Soluble in water Persistence is unlikely based on information available.



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**Bioaccumulation/ Accumulation:** No information available. **Mobility:** Will likely be mobile in the environment due to its water solubility.

# Section 13- Disposal Considerations.

**Waste Disposal Methods**: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# Section 14- Transport Information.

DOT Not regulated TDG Not regulated IATA Not regulated IMDG/IMO Not regulated

# Section 15- Regulatory Information.

# Legend:TSCA - Toxic Substances Control Act, (40 CFR Part 710)X - Listed'-' - Not ListedTSCA 12(b) - Notices of Export Not applicable.U.S. Federal RegulationsSARA 313: Not applicable.SARA 311/312 Hazard Categories: See section 2 for more information.CWA (Clean Water Act) Not applicableClean Air Act: Not applicable.OSHA - Occupational Safety and: Not applicable.Health AdministrationCERCLA: Not applicable.California Proposition 65: This product does not contain any Proposition 65 chemicals.

# Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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