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SAFETY DATA SHEET

L-LYSINE HCL

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	657-27-2
EC number:	211-519-9
1.2 SYNONYMS:	• Lysine Hydrochloride • L-Lysine Hydrochloride • L-Lysine HCl Salt • Lysine HCl • Lysine Monohydrochloride

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 No data available
Hazard Pictograms:	No data available
Signal Word:	No data available
Hazard statements:	no data available
Precautionary Statements:	**P264:** Wash hands thoroughly after handling. **P280:** Wear protective gloves and eye protection if handling large quantities. **P305 + P351 + P338:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.

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2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, but it is generally considered to be of low toxicity.
Ingestion:	in large quantities may cause gastrointestinal discomfort, such as nausea, abdominal pain, or diarrhea, but it is generally considered safe when consumed in recommended amounts.
Skin Contact:	may cause mild irritation, especially in sensitive individuals, but it is generally considered to be of low risk.
Eye contact:	may cause mild irritation, leading to redness or discomfort, but it is generally not considered a serious hazard.
Chronic Exposure:	Chronic exposure to L-Lysine HCl is generally considered low risk, but prolonged or excessive intake may potentially lead to kidney or gastrointestinal issues in some individuals.
Aggravation of pre-existing conditions:	Aggravation of pre-existing conditions such as kidney disorders or gastrointestinal issues may occur with prolonged or excessive intake of L-Lysine HCl, as it could strain kidney function or worsen digestive symptoms.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 657-27-2 L-LYSINE HCL
Identification number(s):	EC number: 211-519-9

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SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms include gastrointestinal discomfort, nausea, or mild skin and eye irritation, while delayed effects are generally uncommon but could involve kidney strain with prolonged excessive intake.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, Carbon dioxide dry powder
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, hydrogen chloride gas, Nitrogen oxides.

5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not use in confined spaces. Electrostatic discharge protection.

	Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Keep away from moisture.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to

	avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline powder
Colour:	White to off white
Odour:	Odourless or faint characteristic
pH-value:	5
Melting point/Melting range:	210°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non-Flammable
Ignition temperature:	Not determined
Decomposition temperature:	190°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	No
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	1.2 g/cm^3
Relative density:	1.2
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with- ·water at 20 °C:	Soluble
Partition coefficient:(n-octanol/water)	Not determined
Viscosity:	Not applicable

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SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Excessive heat. Moisture, haza
10.5 Incompatible materials	Strong oxidizing agents, scids and bases.
10.6 Hazardous decomposition products	May release sulphur dioxide upon decomposition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 10.600 mg/kg **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): 5.51 mg/l (4hr)
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3

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11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 103 mg/l (96hr) EC50(daphnia): 106 mg/l (48 hr) ErC50(algae): 100 mg/l (72 hr)
12.2 Persistence and degradability:	Readily biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, mild detergents, sand.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not applicable
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not applicable
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Not applicable
14.4 Packing group · ADR, IMDG, IATA:	Not applicable
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substances
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.