

SECTION 1: Identification

1.1GHS Product identifier

Product name	Lysine Food or Laboratory
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1.20ther means of identification

Product number	-
Other names	LYS,HCL;L-Lysinehydrochloride;L-Lysine hydrochloride

1.3Recommended use of the chemical and restrictions on use

Identified uses	Food additives -> Flavoring Agents
Uses advised against	no data available

1.4Supplier's details

11 ibuppiner 5 details	
Company	Rawpharma Biz Private Limited
Address	1101, City Center-2, Science city Road, Sola, Ahmedabad, Gujarat-380060
Telephone	+91 79460 48549

1.5Emergency phone number

Emergency phone number	+91-98795 22397
e-Mail	info@rawpharmabiz.com
Website	www.rawpharmabiz.com

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not classified.

2.2GHS label elements, including precautionary statements

Pictogram(s)	No symbol.	
Signal word	No signal word	
Hazard statement(s)	none	
Precautionary statement(s)		
Prevention	none	
Response	none	
Storage	none	
Disposal	none	

2.30ther hazards which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Lysine hydrochloride	Lysine hydrochloride	657-27-2	211-519-9	100%

SECTION 4: First-aid measures

4.1Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.



Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. Poisons A and B

SECTION 5: Fire-fighting measures

5.1Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.



SECTION 8: Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Solid. Powder.	
Colour	Beige.	
Odour	no d <mark>at</mark> a available	
Melting point/freezing point	262 °C. Atm. press.:1 013.25 hPa.	
Boiling point or initial boiling point	320°C(lit.)	
and boiling range		
Flammability	no data available	
Lower and upper explosion	no data available	
limit/flammability limit		
Flash point	18°C(lit.)	
Auto-ignition temperature	Remarks:Test substance is considered not a self-heating substance.	
Decomposition temperature	no data available	
pН	no data available	
Kinematic viscosity	no data available	
Solubility	Insoluble in ethanol, ethyl ether, acetone, benzene	
Partition coefficient n-octanol/water	artition coefficient n-octanol/water $\log Pow = < -3.3$. Temperature: $24 \ \hat{A}^{\circ}C$.	
Vapour pressure	< 0 Pa. Temperature: 20 ŰC. Remarks: The vapour pressure of the test substance is < 1.33 x	
	10 E-8 Pa = < 1.00 x 10 E-10 mm Hg.	
Density and/or relative density	1.28 g/cm³. Temperature:20 °C.;1.28. Temperature:20 °C.	
Relative vapour density	no data available	



Particle characteristics

no data available

SECTION 10: Stability and reactivity

10.1Reactivity

no data available

10.2Chemical stability

no data available

10.3Possibility of hazardous reactions

no data available

10.4Conditions to avoid

no data available

10.5Incompatible materials

no data available

10.6Hazardous decomposition products

When heated to decomposition it emits toxic fumes of /nitric oxide/.

SECTION 11: Toxicological information

Acute toxicity

Oral: no data available

• Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available



SECTION 12: Ecological information

12.1Toxicity

- Toxicity to fish: LC50 Oryzias latipes > 103 mg/L 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna > 106 mg/L 48 h.
- Toxicity to algae: ErC50 Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) > 100 mg/L 72 h.
- Toxicity to microorganisms: EC50 activated sludge of a predominantly domestic sewage > 100 mg/L 3 h. Remarks:Respiration rate.

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available

12.4Mobility in soil

no data available

12.50ther adverse effects

no data available

SECTION 13: Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.2UN Proper Shipping	Name	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.3Transport hazard cla	ss(es)	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.4Packing group, if app	licable	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.5Environmental hazards		

IATA: No

IMDG: No

14.6Special precautions for user

no data available

ADR/RID: No



14.7Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Lysine hydrochloride	Lysine hydrochloride	657-27-2	211-519-9
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Invent <mark>ory of Chemi</mark> cals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Ch <mark>emicals List (KECL</mark>)			Listed.

SECTION 16: Other information

Information on revision

Creation Date	July 15, 2019
Revision Date	July 15, 2019

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%



References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Prepared By: Rawpharma Biz Private Limited

Mail: <u>info@rawpharmabiz.com</u> Website: <u>www.rawpharmabiz.com</u>

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