

SAFETY DATA SHEET

April.08, 2016

PRODUCT	Sewon L-Lysine HCl 99.5% Granular
HS CODE	2922.41
MANUFACTURER	DAESANG Corporation

1. Substance/preparation and company identification

Product:

Sewon L-Lysine HCl 99.5% Granular

Use: food additive,

Company:

Daesang Corporation.

26, Cheonho-daero, Dongdaemun-gu, Seoul, Korea

Tel: +82 2 2657 5337 & Fax: +82 2 2657 5177

Email: bio@daesang.com

Emergency information:

+1 201 488 4010 for USA & Canada

+31 20 640 6080 for Europe

+82 2 2657 5337 for the rest countries

2. Composition/information on ingredients

Chemical nature

Lysin-hydrochloride

CAS Number: 657-27-2

EG-Number: 211-519-9

3. Hazard identification

No particular hazards known.

4. First-aid measures

General advice: No special precautions necessary.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

5. Fire-fighting measures

Suitable extinguishing media:

water, carbon dioxide, foam, dry extinguishing media

Specific hazards:

hydrogen chloride, nitrous gases

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions: Avoid dust formation.

Environmental precautions: Do not empty into drains.

Methods for cleaning up or taking up:

For small amounts: Sweep/shovel up. For large amounts: Sweep/shovel up.

7. Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid dust formation.

The product is capable of dust explosion.

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Components with workplace control parameters

None

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Hand protection:

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.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	granular
Colour:	white
Odour:	odourless
pH value:	approx. 5,0 - 6,0 (100 g/l)
Melting temperature:	263 - 264 °C
Bulk density: approx.	650 - 700 kg/m ³
Solubility in water:	approx. 600 g/l (approx. 20 °C)

10. Stability and reactivity

Thermal decomposition: > 225 °C

Hazardous reactions: Dust explosion hazard.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

LD50/oral/rat: 10.130 mg/kg

Primary skin irritation/rabbit: non-irritant

Primary irritations of the mucous membrane/rabbit: non-irritant

12. Ecological information

Mobility : No data available.

Bioaccumulation potential : Accumulation in organisms is not to be expected.

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Additional information

Other ecotoxicological advice:

At the present state of knowledge, no negative ecological effects are expected.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EG-Number: 211-519-9

not subject to labeling

Other regulations

16. Other information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Daesang Lysine Gunsan Plant
Head of Quality Management



Ho-Byung Chae