

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/07/2014 Revision date: 27/09/2018 Supersedes: 21/12/2015 Version: 3.1

DNLM-7545

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

1.1. Product identifier

Product form : Substance

Substance name : L-LYSINE:2HCL (D9, 98%; 15N2, 98%)

EC-No. : 211-518-3

CAS-No. : 657-26-1 (Unlabeled)

Product code : DNLM-7545

Formula : C6H5D9*N2O2·2HCl

Synonyms : (S)-2,6-Diaminohexanoic acid dihydrochloride.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R43

Full text of R-phrases: see section 16

GHS-US classification

Skin Sens. 1 H317

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

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Hazard statements (CLP) : H317 - May cause an allergic skin reaction

Precautionary statements (CLP) P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to Comply with applicable regulations

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

: H317 - May cause an allergic skin reaction Hazard statements (GHS-US)

: P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. Precautionary statements (GHS-US)

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water

P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to Comply with applicable regulations

Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-LYSINE:2HCL (D9, 98%; 15N2, 98%)	(CAS-No.) 657-26-1 (Unlabeled) (EC-No.) 211-518-3	100	R43
Name	Product identifier	%	Classification according to Regulation (EC) No.
			1272/2008 [CLP]

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
L-LYSINE:2HCL (D9, 98%; 15N2, 98%) (Main constituent)	(CAS-No.) 657-26-1 (Unlabeled)	100	Skin Sens. 1, H317

Full text of H-phrases: see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a First-aid measures after inhalation

physician.

First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not available.

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: May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/effects after inhalation Symptoms/effects after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid dust formation. Avoid breathing vapors, mist or gas.

6.1.2. For emergency responders

No additional information available

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

For containment : Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before Hygiene measures

breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed in a dry and well-ventilated place. Technical measures

: Store at room temperature away from light and moisture. Storage conditions

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

8.2 **Exposure controls**

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Wear safety glasses with side shields (or goggles) and a face shield. Eye protection

Choose body protection according to the amount and concentration of the dangerous Skin and body protection

substance at the work place.

: When appropriate, use NIOSH/CEN approved respirator. Respiratory protection

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

: Solid Physical state Appearance Solid Molecular mass 230.15 g/mol : White Color

Odor : No data available. Odor threshold No data available No data available Relative evaporation rate (butyl acetate=1) : No data available

: 200 - 206 °C (392 - 403 °F) Melting point

Freezing point No data available Boiling point No data available : No data available Flash point : No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility No data available Log Pow No data available Log Kow : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties : No data available Oxidizing properties No data available **Explosion limits** No data available

Other information 9.2.

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability

Five years after receipt if stored as stated in "Storage" section. Re-QC after 5 years.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

No additional information available

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Formed under fire conditions: Carbon Oxides, Nitrogen Oxides, Hydrogen Chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity - single exposure : Not classified

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Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard

: Not classified

Potential Adverse human health effects and

symptoms

: The chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms/effects after inhalation Symptoms/effects after skin contact : May be harmful if inhaled. May cause respiratory tract irritation. : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability 12.2.

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste)

: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. **UN** number

Not applicable

UN proper shipping name

Not applicable

14.3. **Additional information**

Other information : No supplementary information available.

Special transport precautions : Not dangerous goods.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4. **Environmental hazards**

: No supplementary information available. Other information

Special precautions for user

Special transport precautions : Not dangerous goods.

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14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

L-LYSINE:2HCL (D9, 98%; 15N2, 98%) (657-26-1 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CANADA

L-LYSINE:2HCL (D9, 98%; 15N2, 98%) (657-26-1 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

L-LYSINE:2HCL (D9, 98%; 15N2, 98%)(657-26-1 (Unlabeled))		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Skin Sens. 1	Skin sensitization, Category 1
H317	May cause an allergic skin reaction
R43	May cause sensitization by skin contact

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer

no hazard beyond that of ordinary combustible materials.

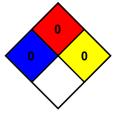
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions,

including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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