

## L-LYSINE:2HCL (13C6, 99%)

### 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: 23/08/2018 Revision date: 08/08/2022 Supersedes: 06/04/2020 Version: 1.3 CLM-2247-H

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance Substance name : L-LYSINE:2HCL (13C6, 99%) EC-No. : 211-518-3 (Unlabeled) CAS-No. : 657-26-1 (Unlabeled) Product code : CLM-2247-H Formula : H2N(\*CH2)4\*CH(NH2)\*COOH-2HCI : (S)-2,6-Diaminohexanoic aciddihydrochloride; (S)-2,6-Diaminohexanoic acid Synonyms Other means of identification Also applicable to: CLM-2247-GENENTECH Relevant identified uses of the substance or mixture and uses advised against 1.2. 1.2.1. **Relevant identified uses** Main use category : Professional use Industrial/Professional use spec : For professional use only 1.2.2. **Uses advised against** No additional information available Details of the supplier of the safety data sheet 1.3. 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** Classification of the substance or mixture 2.1. 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

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2.2. Label elements	
Labeling according to Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P501 - Dispose of contents/container to Comply with applicable regulations</li> </ul>
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
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#### 2.3. **Other hazards**

### No additional information available

SECTION 3: Composition/Information on ingredients				
3.1. Substances				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
L-LYSINE:2HCL (13C6, 99%)	(CAS-No.) 657-26-1 (Unlabeled) (EC-No.) 211-518-3 (Unlabeled)	100	R43	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
L-LYSINE:2HCL (13C6, 99%)	(CAS-No.) 657-26-1 (Unlabeled) (EC-No.) 211-518-3 (Unlabeled)	100	Skin Sens. 1, H317	

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

Name	Product identifier	%	GHS-US classification
L-LYSINE:2HCL (13C6, 99%) (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

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u feel unwell, seek medical advice (show the label where possible). Evacuate danger area. n symptoms occur: go into open air and ventilate suspected area. If not breathing give cial respiration. Get medical advice/attention. h with plenty of soap and water. and soap. Get immediate medical advice/attention. e cautiously with water for several minutes. er give anything by mouth to an unconscious person. Rinse mouth out with water. Get ical advice/attention. acute and delayed be harmful if inhaled. May cause respiratory irritation.
n symptoms occur: go into open air and ventilate suspected area. If not breathing give cial respiration. Get medical advice/attention. h with plenty of soap and water. and soap. Get immediate medical advice/attention. e cautiously with water for several minutes. er give anything by mouth to an unconscious person. Rinse mouth out with water. Get ical advice/attention. acute and delayed
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be harmful if inhaled. May cause respiratory irritation.
cause an allergic skin reaction.
cause eye irritation.
be harmful if swallowed.
on and special treatment needed
able extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight r fires with water spray or alcohol resistant foam.
or mixture
t fire with normal precautions from a reasonable distance. Wear a self contained breathing iratus. Do not enter fire area without proper protective equipment, including respiratory action.
ot enter fire area without proper protective equipment, including respiratory protection. r recommended personal protective equipment.
and emergency procedures
о <i>у</i> ,
d breathing vapors, mist, gas. Avoid dust formation.
a broadning vaporo, milot, gao. Avola ador formation.
ot attempt to take action without suitable protective equipment. For further information to section 8: "Exposure controls/personal protection".
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SECTION 8: Exposure controls/personal protection	n
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8.1.	Control	parameters

No additional information available

#### 8.2. **Exposure controls**

Appropriate engineering controls

Personal protective equipment

- : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Materials for protective clothing	:	Wear suitable protective clothing and gloves.
Hand protection	:	Wear suitable protective clothing and gloves.
Eye protection	:	Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	:	Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	:	Avoid release to the environment.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Crystalline
Molecular mass	: 225.07 g/mol (Labeled)
Color	: White
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 200 - 206 °C (392 - 403 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
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

9.2. **Other information** 

No additional information available

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SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No additi	onal information available		
10.2.	Chemical stability		
Five years after receipt if stored as stated in "Storage" section. Re-QC after 5 years.			
10.3.	Possibility of hazardous reactions		

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10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
Strong oxidizing agents		
10.6. Hazardous decomposition products		
Under fire conditions: Carbon oxides, Nitrogen oxides, Hydrogen chloride gas		
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	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: 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.	
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: May cause eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	

SECT	ION 12: Ecological information	
12.1.	Toxicity	
Ecology	r - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Results of PBT and vPvB assessmen	t i i i i i i i i i i i i i i i i i i i
No addi	tional information available	
12.6.	Other adverse effects	
No addi	tional information available	
SECT	ION 13: Disposal consideration	S
13.1.	Waste treatment methods	
Regiona	al legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product	/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology	- waste materials	: Dispose of as unused product.
SECT	ION 14: Transport information	
In accor	dance with ADR / RID / IMDG / IATA / AD	N
14.1.	UN number	
Not app	licable	
08/08/20	22	EN (English US) 5/7

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14.2.     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			
Other information	: No supplementary information available.		
14.5. Special precautions for user			
Special transport precautions	: Not dangerous goods.		

### 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 (13C6, 99%) (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 (13C6, 99%) (657-26-1 (Unlabeled))	
Listed on the Canadian DSL (Domestic Substances List)	

#### **National regulations** 15.2.1.

No additional information available

### 15.3. US State regulations

L-LYSINE:2HCL (13C6, 99%)(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	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List

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### SECTION 16: Other information

### Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

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