

# L-PROLINE (1-13C, 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: 28/04/2011 Revision date: 09/08/2022 Supersedes: 09/08/2018 Version: 1.2

CLM-510

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

1.1. Product identifier

Product form : Substance

Substance name : L-PROLINE (1-13C, 99%) EC-No. : 205-702-2 (Unlabeled)

 CAS-No.
 : 81202-06-4

 Product code
 : CLM-510

 Formula
 : C4\*CH9NO2

Synonyms : (S)-Pyrrolidine-2-carboxylic acid

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

#### 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

# 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 <u>cilsales@isotope.com</u> 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]

Not classified

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

Not classified

### **GHS-US** classification

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

### **GHS-US** labelling

No labelling applicable

# 2.3. Other hazards

No additional information available

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# **SECTION 3: Composition/information on ingredients**

#### **Substances**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-PROLINE (1-13C, 99%)	(CAS-No.) 81202-06-4 (EC-No.) 205-702-2 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-PROLINE (1-13C, 99%)	(CAS-No.) 81202-06-4 (EC-No.) 205-702-2 (Unlabeled)	100	Not classified

Full text of R- and H-statements; see section 16

ĺ	Name	Product identifier	%	GHS-US classification
	L-PROLINE (1-13C, 99%) (Main constituent)	(CAS-No.) 81202-06-4	100	Not classified

Full text of H-statements: see section 16

#### 3.2. **Mixtures**

Not applicable

# **SECTION 4: First aid measures**

# **Description of first aid measures**

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

physician.

First-aid measures after skin contact : Wash with soap and water.

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.

# Most important symptoms and effects, both acute and delayed

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

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

### Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### **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 : Wear self-contained breathing apparatus for fire fighting if necessary. Wear suitable protective

# SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures 6.1.

### 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**

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

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store refrigerated (-5 °C to 5 °C). Protect from light.

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

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









Hand protection : Wear suitable protective clothing and gloves.

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

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

substance at the work place.

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

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline, Powder

Molecular mass : 116.12 g/mol (Labeled)

Colour : White

Odour : No data available
Odour threshold : No data available

pH : 6.0 - 7 at 115 g/l at 25 °C (77 °F)

Relative evaporation rate (butylacetate=1) : No data available : 228 °C (442 °F) Melting point Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density No data available

Solubility : Water: 115 g/l at 20 °C (68 °F) - completely soluble

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
Oxidising properties : No data available
Explosive limits : No data available

# 9.2. Other information

No additional information available

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# **SECTION 10: Stability and reactivity**

#### Reactivity

No additional information available

#### 10.2. **Chemical stability**

Stable if stored under recommended conditions.

#### Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid** 10.4.

Not available.

#### Incompatible materials 10.5.

Strong oxidizing agents.

#### 10.6. **Hazardous decomposition products**

Formed under fire conditions: Carbon oxides, Nitrogen oxides.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified

L-PROLINE (1-13C, 99%) (81202-06-4)	
LD50 oral rat	> 5110 mg/kg

Skin corrosion/irritation : Not classified

No data available

pH: 6.0 - 7 at 115 g/l at 25 °C (77 °F)

Serious eye damage/irritation Not classified

No data available

pH: 6.0 - 7 at 115 g/l at 25 °C (77 °F)

Respiratory or skin sensitisation : Not available

No data available

Germ cell mutagenicity : Not available Carcinogenicity Not classified Reproductive toxicity : Not available STOT-single exposure Not classified

No data available

STOT-repeated exposure : Not classified

No data available

Aspiration hazard : Not classified

Potential adverse human health effects and

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

symptoms

Symptoms/effects after inhalation

: May be fatal if inhaled. May cause respiratory tract irritation.

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

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

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

L-PROLINE (1-13C, 99%) (81202-06-4)		
	EC50 Danhnia 1	> 100 mg/l - Danhnia magna (Mater flea) - 48 h

#### 12.2. Persistence and degradability

L-PROLINE (1-13C, 99%) (81202-06-4)	
Persistence and degradability	Not available.

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12.5. Bloaddamalative potential		
L-PROLINE (1-13C, 99%) (81202-06-4)		
Bioaccumulative potential	Not available.	

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#### 12.4. Mobility in soil

# L-PROLINE (1-13C, 99%) (81202-06-4)

Ecology - soil Not available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : Not available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company.

Product/Packaging disposal recommendations: : Dispose in a safe manner in accordance with local/national regulations.

# **SECTION 14: Transport information**

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

#### 14.1. UN number

Not applicable

### 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

No additional information available

### 15.2. International regulations

## **CANADA**

No additional information available

# 15.2.1. National regulations

No additional information available

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#### 15.3. US State regulations

L-PROLINE (1-13C, 99%)(81202-06-4)	ROLINE (1-13C, 99%)(81202-06-4)	
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 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

# **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.

NFPA health hazard

: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

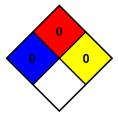
NFPA fire hazard

: 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.



# **HMIS III 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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