

## L-PROLINE (D7, 98%; 15N, 98%)

### 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

Revision date: 22/01/2020 Supersedes: 09/08/2018 Date of issue: 13/03/2014 Version: 2.2

DNLM-7562

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

1.1. **Product identifier** 

Product form : Substance

: L-PROLINE (D7, 98%; 15N, 98%) Substance name

FC-No. : 205-702-2 (Unlabeled) CAS-No. : 147-85-3 (Unlabeled)

Product code : DNLM-7562 : C5H2D7\*NO2 Formula

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

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

#### 1.2.1. Relevant identified uses

: Professional use Main use category

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

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

#### 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

#### **Label elements**

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

No labeling applicable

#### **GHS-US** labeling

No labeling applicable

## Other hazards

No additional information available

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## L-PROLINE (D7, 98%; 15N, 98%) DNLM-756

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

#### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-PROLINE (D7, 98%; 15N, 98%)	(CAS-No.) 147-85-3 (Unlabeled) (EC-No.) 205-702-2 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-PROLINE (D7, 98%; 15N, 98%)	(CAS-No.) 147-85-3 (Unlabeled) (EC-No.) 205-702-2 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-PROLINE (D7, 98%; 15N, 98%) (Main constituent)	(CAS-No.) 147-85-3 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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

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 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May be harmful 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 : May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

#### 4.3. 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.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

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

#### **SECTION 6: Accidental release measures**

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

## 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing dust, mist or spray. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

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#### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

preventive fire protection.

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

breaks and at the end of workday.

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

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

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

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

Personal protective equipment : 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 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.

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, Powder

Molecular mass : 123.17 g/mol (Labeled)

Color : White

Log Kow

: No data available Odor Odor threshold : No data available No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available : No data available Freezing point No data available Boiling point : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available

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: No data available

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: No data available Viscosity, kinematic 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

#### SECTION 10: Stability and reactivity

#### 10.1. 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**

No additional information available

#### Incompatible materials

Strong oxidizing agents.

#### **Hazardous decomposition products**

Carbon oxides (CO, CO2). Nitrogen oxides.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity - single exposure : Not classified : Not classified

Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard 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 tract irritation. 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.

## **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

## Persistence and degradability

No additional information available

#### Bioaccumulative potential

No additional information available

#### **Mobility in soil**

No additional information available

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

No additional information available

#### Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

: Waste materials should be disposed of under conditions which meet Federal, State, and local Regional legislation (waste)

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.

### **SECTION 14: Transport information**

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

#### **UN** number

Not applicable

#### 14.2. **UN proper shipping name**

Not applicable

#### **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.

## 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

<u> </u>		
L-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (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-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

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

No additional information available

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## 15.3. US State regulations

L-PROLINE (D7, 98%; 15N, 98%)(147-85-3 (Unlabeled	D7, 98%; 15N, 98%)(147-85-3 (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 New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		

### **SECTION 16: Other information**

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

no hazard beyond that of ordinary combustible materials.

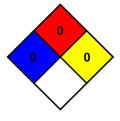
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions,

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

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