

## 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: 08/12/2010 Revision date: 08/08/2022 Supersedes: 14/01/2020 Version: 4.2

CNLM-4347

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

1.1. Product identifier

Product form : Substance

Substance name : L-PROLINE-N-FMOC (13C5, 97-99%; 15N, 97-99%)

EC-No. : 276-259-0 (Unlabeled) CAS-No. : 71989-31-6 (Unlabeled)

Product code : CNLM-4347

Formula : (\*CH\*COOH)(\*CH2)3\*NFMOC

#### 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

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

Uses advised against

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> 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

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

No labeling applicable

## **GHS-US** labeling

No labeling 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-N-FMOC (13C5, 97-99%; 15N, 97-99%)	(CAS-No.) 71989-31-6 (Unlabeled) (EC-No.) 276-259-0 (Unlabeled) (EC Index-No.)	100	Not classified
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-PROLINE-N-FMOC (13C5, 97-99%; 15N, 97-99%) (Main constituent)	(CAS-No.) 71989-31-6 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

## **Mixtures**

Not applicable

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

## **Description of first aid measures**

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation When symptoms occur: go into open air and ventilate suspected area. If not breathing, give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes.

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

medical advice/attention.

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

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : May be harmful in contact with skin. May cause moderate 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**

## **Extinguishing media**

: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Suitable extinguishing media

## Special hazards arising from the substance or mixture

No additional information available

#### Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

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

Wear recommended personal protective equipment.

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

## Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

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

#### 6.1.2. For emergency responders

No additional information available

#### **Environmental precautions**

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

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

For containment

Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

## Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

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

: Store refrigerated (-5 °C - 5 °C) and dessicated. Storage conditions

#### Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

No additional information available

### **Exposure controls**

Appropriate engineering controls

: 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. Personal protective equipment









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**

## Information on basic physical and chemical properties

: Solid Physical state : Powder. Appearance

Molecular mass 343.33 g/mol (Labeled)

Color white.

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

117 - 118 °C (243 - 244 °F) Melting point

No data available Freezing point **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

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: No data available Log Kow 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

No additional information available

## **SECTION 10: Stability and reactivity**

#### Reactivity

No additional information available

#### **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

: Not classified Skin corrosion/irritation 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 Specific target organ toxicity - repeated : Not classified exposure

Acute toxicity

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 be harmful in contact with skin. May cause moderate irritation.

: Not classified

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

## **SECTION 12: Ecological information**

## **Toxicity**

The product is not considered harmful to aquatic organisms or to cause long-term adverse Ecology - general effects in the environment.

### 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

#### 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional 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.

## **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 classified as dangerous in the meaning of transport regulations.

#### **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 classified as dangerous in the meaning of transport regulations.

## 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-PROLINE-N-FMOC (13C5, 97-99%; 15N, 97-99%) (71989-31-6 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	

## 15.2. International regulations

#### CANADA

## L-PROLINE-N-FMOC (13C5, 97-99%; 15N, 97-99%) (71989-31-6 (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-N-FMOC (13C5, 97-99%; 15N, 97-99%)(71989-31-6 (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		

## **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.

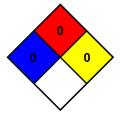
O - Materials that will not burn under typical fire conditions,

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**

NFPA fire hazard

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Substance SDS

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