

## L-PROLINE UNLABELED

## Safety Data Sheet

 Catcher (J)
 Date of 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: 26/04/2011
 Revision date: 03/08/2022
 Supersedes: 09/08/2018
 Version: 2.3

 ULM-8333
 ULM-8333

<b>SECTION 1: Identification of the subs</b>	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: L-PROLINE UNLABELED		
EC-No.	: 205-702-2		
CAS-No.	: 147-85-3		
Product code	: ULM-8333		
Formula	C5H9NO2		
Synonyms	: (S)-Pyrrolidine-2-carboxylic acid		
1.2. Relevant identified uses of the substa	nce 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 da	ata sneet		
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 mix	ture		
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

### L-PROLINE UNLABELED ULM-8333

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

SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-PROLINE UNLABELED	(CAS-No.) 147-85-3 (EC-No.) 205-702-2	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-PROLINE UNLABELED	(CAS-No.) 147-85-3 (EC-No.) 205-702-2	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-PROLINE UNLABELED (Main constituent)	(CAS-No.) 147-85-3	100	Not classified

Full text of H-phrases: see section 16

Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.</li> <li>Wash with soap and water.</li> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> <li><b>cts, both acute and delayed</b></li> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> <li>May be harmful if absorbed through skin. May cause skin irritation.</li> </ul>
4.1.Description of first aid measuresFirst-aid measures after inhalationFirst-aid measures after skin contactFirst-aid measures after eye contactFirst-aid measures after ingestion	<ul> <li>physician.</li> <li>Wash with soap and water.</li> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> </ul> <b>cts, both acute and delayed</b> <ul> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> </ul>
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>physician.</li> <li>Wash with soap and water.</li> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> </ul> <b>cts, both acute and delayed</b> <ul> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> </ul>
First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>physician.</li> <li>Wash with soap and water.</li> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> </ul> <b>cts, both acute and delayed</b> <ul> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> </ul>
First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> <li><b>cts, both acute and delayed</b></li> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> </ul>
First-aid measures after ingestion	<ul> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li> <li>cts, both acute and delayed</li> <li>May be fatal if inhaled. May cause respiratory tract irritation.</li> </ul>
<b>.</b>	cts, both acute and delayed         : May be fatal if inhaled. May cause respiratory tract irritation.
	: May be fatal if inhaled. May cause respiratory tract irritation.
4.2. Most important symptoms and effect	
Symptoms/effects after inhalation	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after skin contact	
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medica	al 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 su	bstance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Wear self-contained breathing apparatus for fire fighting if necessary. Wear suitable protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment 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	
6.2. Environmental precautions Do not let product enter drains.	
6.3. Methods and material for containme For containment	
	: Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	

## L-PROLINE UNLABELED ULM-8333

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

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
	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				
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/persor	al 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.			
<b>SECTION 9: Physical and chemical pro</b>	operties			
9.1. Information on basic physical and che	mical properties			
Physical state :	Solid			
Appearance :	Crystalline, Powder			
Molecular mass :	115.13 g/mol			
Color :	White			
Odor :	No data available			
Odor threshold :	No data available			
pH :	6.0 - 7 at 115 g/l at 25 °C (77 °F)			
1 ( , )	No data available			
Melting point :	228 °C (442 °F)			
01	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 :	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			
Oxidizing properties :	No data available			
Explosion limits :	No data available			

9.2. **Other information** 

No additional information available

## L-PROLINE UNLABELED ULM-8333

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

26, 2012 / Rules and Regulations			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable if stored under recommended conditions.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Not available.			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Formed under fire conditions: Carbon oxides, Nit	rogen oxides		
<b>SECTION 11: Toxicological informat</b>	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
L-PROLINE UNLABELED (147-85-3)			
LD50 oral rat	> 5110 mg/kg		
Skin corrosion/irritation	: Not classified		
	pH: 6.0 - 7 at 115 g/l at 25 °C (77 °F)		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	pH: 6.0 - 7 at 115 g/l at 25 °C (77 °F) : 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			
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 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 UNLABELED (147-85-3)			
EC50	Daphnia 1	> 100 mg/l - Daphnia magna (Water flea) - 48 h	
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional information available			
12.5.	Results of PBT and vPvB assessment		
No additional information available			
12.6.	Other adverse effects		
No addi	tional information available		

03/08/2022

EN (English US)

### L-PROLINE UNLABELED ULM-8333

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

SECTION 13: Disposal consideration	ns
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 / A	
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	
L-PROLINE UNLABELED (147-85-3)	
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**

No additional information available

### 15.2.1. **National regulations**

No additional information available

## 15.3. US State regulations

L-PROLINE UNLABELED(147-85-3)	
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

# L-PROLINE UNLABELED ULM-8333

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

L-PROLINE UNLABELED(147-85-3)	
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.
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