

L-PROLINE	MATERIAL SAFETY DATA SHEET
CAS NO 147-85-3	SDS/MSDS

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

1.1	Product identifiers Product name	[:] L-Proline	
	CAS-No.	: 147-85-3	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.	
1.3	3 Details of the supplier of the safety data sheet		
	Company	 Pallav Chemicals & Solvents Pvt. Ltd 253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050 INDIA 	
	Telephone Email	: +91 22 4928 4000 : sales@pallavchemicals.com	
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1.4 Emergency telephone number

Emergency Phone # : +91 22 4928 4000 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: (S)-Pyrrolidine-2-carboxylic acid
Formula	: C5H9NO2
Molecular weight	: 115.13 g/mol
CAS-No.	: 147-85-3
EC-No.	: 205-702-2

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data 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 Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions No special environmental precautions required.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Crystalline powder Colour: white
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	рН	6.0 - 7 at 115 g/l at 25 °C
e)	Melting point/freezing point	Melting point/range: 228 °C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i) j)	Flammability (solid, gas) Upper/lower flammability or explosive limits	The product is not flammable Flammability (solids) No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	115 g/l at 20 °C - completely soluble

o)	Partition coefficient: n-	No data available	
	octanol/water		

- p) Auto-ignition not auto-flammable temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available
- 9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents

Hazardous decomposition products Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - > 5,110 mg/kg(L-Proline)

Skin corrosion/irritation No data available(L-Proline)

Serious eye damage/eye irritation No data available(L-Proline)

Respiratory or skin sensitisation No data available(L-Proline)

Germ cell mutagenicity

No data available(L-Proline) Ames test(L-Proline) S. typhimurium Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(L-Proline)

Specific target organ toxicity - single exposure

No data available(L-Proline)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available(L-Proline)

Additional Information

Repeated dose toxicity - Rat - male - Oral - No observed adverse effect level - 2,772.9 mg/kg(L-Proline)

Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - 3,009.3 mg/kg(L-Proline) RTECS: TW3584000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(L-Proline)

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and
other aquaticEC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h(L-Proline)
(OECD Test Guideline 202)invertebrates

12.2 Persistence and degradability

Biodegradability

aerobic (L-Proline) Result: - Readily biodegradable (OECD Test Guideline 301)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil No data available(L-Proline)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number ADR/RID: -

IMDG: - IATA: -

14.2		shipping name Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport	hazard class(es)		
	ADR/RID:	-	IMDG: -	IATA: -
14.4	Packaging	l group		
	ADR/RID:	-	IMDG: -	IATA: -
14.5	Environme	ental hazards		
	ADR/RID:	no	IMDG Marine pollutant: no	IATA: no
14.6	Special pr No data av	ecautions for user ailable		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.