



Section 1. Product and Company Identification

Product Name L-Proline
CAS Number 147-85-3

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 0

Reactivity: 0

Section 3. Composition / Information on Ingredients

Common Name L-Proline
Synonym(s) L-(-)-Proline; L-alpha-Pyrrolidinecarboxylic acid
Formula $C_5H_9NO_2$
CAS Number 147-85-3



Section 4. First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5. Firefighting Measures

Flash Point: N/A

Auto-Ignition Temperature: N/A

Flammability: N/A

Suitable Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazards: Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Procedures of Personal Precautions: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

Handling

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable Storage: Keep tightly closed.

Section 8. Exposure Controls / Personal Protection

Engineering Control: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand: Protective gloves.

Eye: Chemical safety goggles.

General Hygiene Measures: Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State: Solid

Molecular Weight: 115.13 AMU

pH: 6.0 - 7.0

BP/BP Range: N/A

MP/MP Range: 228°C

Freezing Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Saturated Vapor Con.: N/A

SG/Density: N/A

Bulk Density: N/A

Odor Threshold: N/A

Volatile: N/A

VOC Content: N/A

Water Content: N/A

Solvent Content: N/A

Evaporation Rate: N/A

Viscosity: N/A

Surface Tension: N/A

Partition Coefficient: N/A

Decomposition Temperature: N/A

Flash Point: N/A

Explosion Limits: N/A

Flammability: N/A

Auto-Ignition Temperature: N/A

Refractive Index: N/A

Optical Rotation: Degree of Rotation: $84.8^\circ \pm 0.5^\circ$ (50 g/L solvent H₂O, 100.5)

Miscellaneous Data: N/A

Solubility in Water: Complete, colorless (1 M in H₂O, 20°C)



Section 10. Stability and Reactivity

Stability: Stable.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Chronic Exposure - Mutagen

Species: Human

Dose: 10 mg/L

Cell Type: Lymphocyte

Mutation Test: Sister chromatid exchange

Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT: This substance is considered to be non-hazardous for transport.

Proper Shipping Name: None

IATA: Non-hazardous for air transport.

Section 15. Regulatory Information

No further information available.

Section 16. Other Information

Disclaimer: 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.

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