

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

Material Safety Data Sheet (MSDS)

L-Limonene

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

• Product Name: L-Limonene

• Chemical Formula: C10H16

• CAS No: 5989-54-8

• Synonyms: p-Mentha-1,8-diene, 1-Methyl-4-(1-methylethenyl)cyclohexene, Dipentene

• Recommended Use: Flavoring agent, fragrance ingredient, solvent

Section 2: Hazards Identification

- Classification (GHS): Flammable Liquid, Skin Irritant, Skin Sensitizer, Aquatic Acute, Aquatic Chronic
- Signal Word: Warning
- Hazard Statements:



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- Flammable liquid and vapor
- Causes skin irritation
- May cause allergic skin reaction
- Very toxic to aquatic life
- Very toxic to aquatic life with long lasting effects
- Precautionary Statements:
 - Keep away from heat, sparks, open flames, and hot surfaces
 - Avoid contact with skin and eyes
 - Wear protective gloves and eye protection
 - Avoid release to the environment
 - Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

Concentration: >95%

Section 4: First Aid Measures

• Inhalation: Remove victim to fresh air and keep at rest. Seek medical attention if symptoms develop.

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- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation continues.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide (CO2), water spray.
- **Specific Hazards:** Flammable; vapors may form explosive mixtures with air. Emits carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Remove all sources of ignition. Use protective equipment. Avoid inhalation of vapors and contact with skin/eyes.
- Environmental Precautions: Prevent entry into drains and waterways. Notify authorities if large spills occur.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for disposal.

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Section 7: Handling and Storage

- **Handling:** Handle in well-ventilated areas. Keep away from heat, sparks, and open flames. Avoid contact with skin and eyes.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from sources of ignition and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not established for L-Limonene.
- Engineering Controls: Ensure adequate ventilation and explosion-proof equipment.
- **Personal Protective Equipment:** Protective gloves, goggles, flame-resistant clothing. Respiratory protection if vapors exceed limits.

Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow liquid

• Odor: Citrus-like odor

• **Boiling Point:** 175 – 177 °C

• Flash Point: 50 °C (closed cup)

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- Solubility: Insoluble in water; soluble in organic solvents
- Molecular Weight: 136.24 g/mol

Section 10: Stability and Reactivity

- Stability: Stable under normal handling and storage conditions.
- Incompatible Materials: Strong oxidizing agents, strong acids.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.

Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Causes skin irritation. May cause dizziness or respiratory irritation at high concentrations.
- Chronic Effects: May cause sensitization on prolonged or repeated contact.

Section 12: Ecological Information

- **Ecotoxicity:** Very toxic to aquatic organisms with long lasting effects.
- Persistence and Degradability: Readily biodegradable but high toxicity to aquatic organisms.
- Bioaccumulative Potential: Moderate potential for bioaccumulation.
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Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations.
- Do not release into the environment.

Section 14: Transport Information

• UN Number: UN 2319

• Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (L-Limonene)

• Hazard Class: 3 (Flammable liquids)

Packing Group: III

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international chemical inventory listings.
- Classified as hazardous substance as per GHS.

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Section 16: Other Information

• **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.



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