

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)

### **Alpha-Terpineol**

Revision Date: 24-September-2025

Version: 1.0

#### Section 1: Product Identification

Product Name: Alpha-Terpineol
 Chemical Formula: C10H18O

• CAS No: 98-55-5

• **Synonyms:**  $\alpha$ -Terpineol; p-Menth-1-en-8-ol; 1- $\alpha$ -Terpineol; 3-Cyclohexene-1-methanol,  $\alpha$ , $\alpha$ ,4-trimethyl-

• **Recommended Use:** Fragrance ingredient, flavoring agent, solvent/intermediate in organic synthesis.

#### Section 2: Hazards Identification

- Classification (GHS): Flammable liquid (Category 4); Skin Irritant (Category 2); Eye Irritant (Category 2A); Acute Aquatic Hazard (Category 3)
- Signal Word: Warning
- Hazard Statements:
  - Combustible liquid.
  - Causes skin irritation.
- Causes serious eye irritation.

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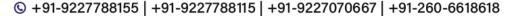
- Harmful to aquatic life.
- Precautionary Statements:
  - Avoid contact with skin and eyes.
  - Wear protective gloves and eye protection.
  - Wash hands thoroughly after handling.
  - Avoid release to the environment.
  - In case of fire: Use water spray, foam, dry chemical or CO2 to extinguish.

### Section 3: Composition / Information on Ingredients

• Concentration: ≥ 95%

#### Section 4: First Aid Measures

- Inhalation: Move to fresh air. If symptoms occur, seek medical attention.
- **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. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical advice.



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### Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO2).
- **Specific Hazards:** Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

#### Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for proper disposal.

# Section 7: Handling and Storage

- Handling: Avoid inhalation of vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from heat and light.

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## Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not specifically established for Alpha-Terpineol.
- Engineering Controls: Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

# Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow liquid

Odor: Floral, lilac-like odor
 Boiling Point: 214 - 219 °C

• Flash Point: 93 °C (closed cup)

• Solubility: Slightly soluble in water; miscible with ethanol and organic solvents

• Molecular Weight: 154.25 g/mol

# Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- Incompatible Materials: Strong oxidizing agents.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.
- Conditions to Avoid: Heat, sparks, open flames, and ignition sources.

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### Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: May cause skin and eye irritation. Oral LD50 (rat)  $\sim$  4,300 mg/kg; Dermal LD50 (rat) > 2,000 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or respiratory discomfort.

### Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic life.
- Persistence and Degradability: Readily biodegradable.
- Bioaccumulative Potential: Low to moderate potential for bioaccumulation.

# 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: Not regulated

Proper Shipping Name: Alpha-Terpineol

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- Hazard Class: Not classified as dangerous goods
- Packing Group: Not applicable

### Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

#### 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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