

## 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:** C<sub>10</sub>H<sub>18</sub>O
- **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:**  $\geq 95\%$

## 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.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **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.

## 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.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause skin and eye irritation. Oral LD50 (rat) ~ 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

- **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.