

## Material Safety Data Sheet (MSDS)

### Alpha-Phellandrene

Revision Date: 23-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Alpha-Phellandrene
- **Chemical Formula:** C<sub>10</sub>H<sub>16</sub>
- **CAS No:** 99-83-2
- **Synonyms:** α-Phellandrene; 2,4(8)-p-Menthadiene
- **Recommended Use:** Laboratory chemical; fragrance ingredient; flavoring agent; research applications.

#### Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquids (Category 3); Skin irritation (Category 2); Skin sensitization (Category 1); Aspiration hazard (Category 1).
- **Signal Word:** Danger
- **Hazard Statements:**

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



www.chemicalbull.com

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- Flammable liquid and vapor
- Causes skin irritation
- May cause an allergic skin reaction
- Keep away from heat/sparks/open flames. No smoking
- Wear protective gloves/eye protection
- Avoid breathing vapors
- IF ON SKIN or IN EYES: Rinse cautiously with water; seek medical advice if irritation or allergic reaction develops

## Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation or allergic reaction persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO<sub>2</sub>); water spray.
- **Specific Hazards:** Flammable liquid and vapor; vapors may form explosive mixtures with air; 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. Eliminate ignition sources. Avoid breathing vapors. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal. Use non-sparking tools.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat, sparks, and open flame.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established (refer to local occupational exposure guidelines).
- **Engineering Controls:** Provide adequate ventilation, explosion-proof equipment, and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Citrus, peppery odor
- **Boiling Point:** 171,5 °C
- **Flash Point:** 48 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 136.24 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.

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## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause allergic skin reactions; may cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and sensitization.

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## Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.

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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:** Alpha-Phellandrene
- **Hazard Class:** 3
- **Packing Group:** III

## 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.