

## Material Safety Data Sheet (MSDS)

### Eucalyptol Oil

Revision Date: 1-October-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Eucalyptol Oil
- **Chemical Formula:** C<sub>10</sub>H<sub>18</sub>O
- **CAS No:** 8000-48-4
- **Synonyms:** 1,8-Cineole; Cineol; Eucalyptol
- **Recommended Use:** Used in perfumery, traditional medicine, and aromatherapy (restricted in food use due to  $\beta$ -asarone content).

#### Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2), Aspiration Hazard (Category 1).
- **Signal Word:** Danger
- **Hazard Statements:**

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GROUP OF Triveni CHEMICALS

- Combustible liquid
- Causes skin irritation
- Causes serious eye irritation
- May be fatal if swallowed and enters airways
- **Precautionary Statements:**
  - Keep away from heat, sparks, open flames, and hot surfaces – No smoking
  - Avoid breathing vapors
  - Wear protective gloves, eye and face protection
  - Wash hands thoroughly after handling
  - **IF SWALLOWED:** Immediately call a POISON CENTER/doctor. Do NOT induce vomiting

## Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms develop, 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. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if feeling unwell.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO<sub>2</sub>); water spray.
- **Specific Hazards:** Combustible liquid (Flash point ~ 93 °C); 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 breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No established occupational exposure limits; minimize exposure due to potential carcinogenicity.
- **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

**Appearance:** Colorless liquid

**Odor:** Characteristic, camphor-like, eucalyptus odor

**Boiling Point:** 176–177 °C

**Flash Point:** 49 °C (closed cup)

**Solubility:** Insoluble 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.

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## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed (due to  $\beta$ -asarone); causes skin and eye irritation; may cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and liver/kidney effects.

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## Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life in high concentrations.
- **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:** UN1993
- **Proper Shipping Name:** Flammable liquid, n.o.s. (contains Eucalyptol)
- **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.