

Material Safety Data Sheet (MSDS)

Geraniol

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Geraniol
- **Chemical Formula:** C₁₀H₁₈O
- **CAS No:** 106-24-1
- **Synonyms:** β-Geraniol; 3,7-Dimethyl-2,6-octadien-1-ol
- **Recommended Use:** Used in flavors, fragrances, cosmetics, and as an intermediate in chemical synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A); Skin Sensitizer (Category 1); Aquatic Chronic Hazard (Category 3)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
 - May cause an allergic skin reaction

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- Harmful to aquatic life with long lasting effects
- **Precautionary Statements:**
 - Wear protective gloves, eye and face protection
 - Wash thoroughly after handling
 - Avoid release to the environment
 - If on skin: wash with plenty of water
 - If in eyes: rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$

Section 4: First Aid Measures

- **Inhalation:** Remove person to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation or rash occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing and seek medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Vapors may form explosive mixtures with air. Thermal decomposition may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid inhalation of vapors and contact with skin/eyes. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable containers for disposal. Wash spill area thoroughly.

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors. Avoid contact with skin and eyes. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and light.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No specific occupational exposure limits established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Chemical-resistant gloves, protective goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Sweet, rose-like odor
- **Boiling Point:** 229 - 230 °C
- **Flash Point:** 108 °C (closed cup)
- **Solubility:** Practically insoluble in water; soluble in alcohol and most 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.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause allergic skin reaction in sensitive individuals. Oral LD50 (rat): 3,600 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis.

Section 12: Ecological Information

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

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Geraniol
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS). Complies with Indian chemical safety regulations.
- Classified as hazardous substance under GHS as noted above.

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 liability for damage resulting from handling or contact.