

Material Safety Data Sheet (MSDS)

Nerol

Revision Date: 13-October-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Nerol
- **Chemical Formula:** C₁₀H₁₈O
- **CAS No:** 106-25-2
- **Synonyms:** Cis-Geraniol; 3,7-Dimethyl-2,6-octadien-1-ol; β-Nerol; Lemonol
- **Recommended Use:** Used in perfumery, flavoring agents, and as an intermediate in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Skin irritation, Category 2; Eye irritation, Category 2A; Skin sensitization, Category 1; Aquatic Acute 2; Aquatic Chronic 3.
- **Signal Word:** Warning

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• **Hazard Statements:** Causes skin and eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

- Harmful if swallowed
- Causes skin irritation and serious eye irritation
- Combustible liquid
- Keep away from heat/sparks/open flames. No smoking
- Wear protective gloves/eye protection
- **IF ON SKIN or IN EYES:** Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

- **Concentration:** 95%

Section 4: First Aid Measures

- **Inhalation:** Move the exposed person to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical attention.
- **Ingestion:** Rinse mouth and seek immediate medical attention. Do not induce vomiting.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, or carbon dioxide. Avoid direct water stream.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Incomplete combustion may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid breathing vapors and contact with skin or eyes. Ensure good ventilation and remove ignition sources.
- **Environmental Precautions:** Prevent leakage or spillage into drains, surface, and ground water.
- **Cleanup Methods:** Absorb with inert material such as sand or earth. Dispose of according to local regulations.

Section 7: Handling and Storage

- **Handling:** Handle in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Keep away from sources of ignition.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed away from heat and oxidizers.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** Provide adequate local exhaust ventilation. Use explosion-proof electrical equipment.
- **Personal Protective Equipment:** Wear protective gloves, goggles, and suitable clothing. Use respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid.
- **Odor:** Sweet, rose-like odor.
- **Boiling Point:** 227 °C
- **Flash Point:** 107 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in ethanol and organic solvents.

- **Molecular Weight:** 154.25 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Strong oxidizing agents and acids.
- **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.
- **Chronic Effects:** Repeated or prolonged contact may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low 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:** Environmentally hazardous substance, liquid, n.o.s. (Nerol)
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- 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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