

Material Safety Data Sheet (MSDS)

Germacrene D

Revision Date: 05-November-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Germacrene D
- **Chemical Formula:** C₁₅H₂₄
- **CAS No:** 23986-74-5
- **Synonyms:** D-Germacrene; 1,6-Cyclodecadiene, 1-methyl-5-methylene-8-(1-methylethyl)
- **Recommended Use:** Used in fragrance industry, essential oils, and research applications.

Section 2: Hazards Identification

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

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- Combustible liquid
- Causes skin irritation
- Causes serious eye irritation

• **Precautionary Statements:**

- Keep away from heat, sparks, open flames, and hot surfaces
- Wear protective gloves and eye protection
- Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Concentration:** >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 immediate 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, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** 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. Avoid inhalation and contact with skin/eyes. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, surface water, and soil.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal.

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:** Store in tightly closed containers in a cool, dry, and well-ventilated place. Protect from light and heat.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established for Germacrene D.
- **Engineering Controls:** Ensure adequate ventilation and use fume hood where applicable.
- **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:** Mild, characteristic odor (woody, herbal)
- **Boiling Point:** 280 °C
- **Flash Point:** NA
- **Solubility:** Insoluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 204.35 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
- **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 respiratory irritation.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic organisms with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential for bioaccumulation.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Germacrene D
- **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.

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