

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

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.

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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.

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• **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

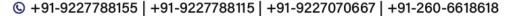
• Odor: Mild, characteristic odor (woody, herbal)

• Boiling Point: 280 °C

• Flash Point: NA

• **Solubility:** Insoluble in water; soluble in ethanol and organic solvents

• Molecular Weight: 204.35 g/mol



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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.

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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.

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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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