

Material Safety Data Sheet (MSDS)

Damascenone

Revision Date: 29-August-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Damascenone
- **Chemical Formula:** C₁₃H₁₈O
- **CAS No:** 23696-85-7
- **Synonyms:** β-Damascenone, 1-(2,6,6-Trimethyl-1-cyclohex-2-enyl)but-2-en-1-one
- **Recommended Use:** Used in perfumery, fragrances, and flavoring formulations.

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, and open flames
- Wear protective gloves and eye protection
- Avoid contact with eyes, skin, and clothing
- Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$ (typical commercial grade)

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, 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 protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, soil, and water bodies.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors. Use only in well-ventilated areas.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Keep away from ignition sources.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this compound.
- **Engineering Controls:** Provide adequate ventilation and fume extraction.
- **Personal Protective Equipment:** Protective gloves, goggles, lab coat, and respirator if necessary.

Section 9: Physical and Chemical Properties

- **Appearance:** Pale yellow to yellow liquid
- **Odor:** Floral, fruity, rose-like odor
- **Boiling Point:** 280 °C
- **Melting Point:** Not available
- **Flash Point:** 105 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 190.28 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage 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 tract irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** May bioaccumulate in aquatic organisms.

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:** 3082
- **Proper Shipping Name:** Damascenone
- **Hazard Class:** 9
- **Packing Group:** III

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance under 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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