

Material Safety Data Sheet (MSDS)

D-Carvone

Revision Date: 24-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** D-Carvone
- **Chemical Formula:** C₁₀H₁₄O
- **CAS No:** 2244-16-8
- **Synonyms:** (R)-Carvone; Carvol; p-Mentha-6,8-dien-2-one
- **Recommended Use:** Used in flavors, fragrances, and as an intermediate in organic 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 allergic skin reaction
 - Harmful to aquatic life with long lasting effects
- **Precautionary Statements:**

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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- Avoid contact with skin and eyes
- Wear protective gloves/eye protection
- Wash thoroughly after handling
- Avoid release to the environment

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. Remove contact lenses if present. Seek medical advice if irritation continues.
- **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:** Combustion 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 and skin/eye contact. Ensure ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for proper disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid skin/eye contact. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat sources.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment:** Gloves, goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Caraway-like, herbal odor
- **Boiling Point:** 96 - 98 °C
- **Flash Point:** 95,6 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 150.22 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. Oral LD50 (rat) 1640 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.

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:** D-Carvone
- **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.
- 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 liability for damage resulting from handling or contact.

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