

Material Safety Data Sheet (MSDS)

Verbenone

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Verbenone
- **Chemical Formula:** C₁₀H₁₄O
- **CAS No:** 1196-01-6
- **Synonyms:** 4,6,6-Trimethylbicyclo[3.1.1]hept-3-en-2-one
- **Recommended Use:** Used as pheromone in pest management and in fragrance applications.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant, Eye Irritant.
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation

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- Causes serious eye irritation

• **Precautionary Statements:**

- Avoid contact with skin and eyes

- 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:** Remove to fresh air. Seek medical attention if symptoms persist.

• **Skin Contact:** Wash with soap and water. Remove contaminated clothing. If irritation persists, get medical advice.

• **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation continues.

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- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂), water spray.
- **Specific Hazards:** May emit toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Ensure adequate ventilation. Avoid inhalation and contact with skin/eyes.
- **Environmental Precautions:** Prevent from entering drains, sewers, or waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect into suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Handle with care. Avoid inhalation and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store tightly sealed in a cool, dry, well-ventilated area. Keep away from heat, sparks, and direct sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for Verbenone.
- **Engineering Controls:** Provide local exhaust ventilation where vapors may be generated.
- **Personal Protective Equipment:**
 - **Respiratory Protection:** Use approved respirator if exposure limits are exceeded.
 - **Hand Protection:** Protective gloves (nitrile or neoprene).
 - **Eye Protection:** Safety goggles.
 - **Skin Protection:** Protective clothing.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Characteristic, camphor-like odor
- **Boiling Point:** 227 °C
- **Flash Point:** 93 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Molecular Weight:** 150.22 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Incompatible Materials:** Strong oxidizing agents, strong 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 respiratory tract irritation.

- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms in large quantities.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.

Section 13: Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not discharge into drains or environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Verbenone

- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

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