

Material Safety Data Sheet (MSDS)

Isobornyl Acetate

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Isobornyl Acetate
- **Chemical Formula:** C₁₂H₂₀O₂
- **CAS No:** 125-12-2
- **Synonyms:** Bornyl acetate; Isobornyl ethanoate; IBA
- **Recommended Use:** Used in fragrances, flavors, cosmetics, and as an intermediate in chemical synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2B); Aquatic Chronic Hazard (Category 3)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes eye irritation
 - Harmful to aquatic life with long lasting effects
- **Precautionary Statements:**

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- Avoid release to the environment
- Wear protective gloves and eye protection
- Wash thoroughly after handling
- If on skin: wash with plenty of water
- If in eyes: rinse cautiously with water

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with 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. Continue rinsing and seek medical advice.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO_2).
- **Specific Hazards:** Combustion may produce carbon oxides and irritating fumes.

- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of vapors and contact with skin/eyes. Use personal protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash area with detergent and water.

Section 7: Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and direct sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to liquid
- **Odor:** pine
- **Boiling Point:** 229 - 233 °C
- **Flash Point:** 89 °C
- **Solubility:** Insoluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 196.29 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage and handling 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. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization in susceptible individuals.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.
- **Mobility in Soil:** Expected to have low mobility due to hydrophobic nature.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Isobornyl Acetate
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major chemical inventories (TSCA, EINECS, etc.). Complies with Indian chemical safety regulations.
- Classified as hazardous under GHS as noted above.

Section 16: Other Information

Disclaimer: The 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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