

Material Safety Data Sheet (MSDS)

Isopropyl Phenyl Butanal

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Isopropyl Phenyl Butanal
- **Chemical Formula:** C₁₃H₁₈O
- **CAS No:** 125109-85-5
- **Synonyms:** 2-Methyl-3-(4-isopropylphenyl)butanal; IPPB
- **Recommended Use:** Used in fragrances and cosmetic formulations.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A); Skin Sensitizer (Category 1B)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
 - May cause an allergic skin reaction
- **Precautionary Statements:**
 - Avoid contact with skin and eyes

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- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- If on skin: wash with plenty of water
- If in eyes: rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

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

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash skin with soap and water. Remove contaminated clothing. Seek medical advice if irritation or rash develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention if irritation continues.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustible liquid; emits carbon oxides under fire conditions.
- **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. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand/earth). Collect in suitable containers for disposal. Wash spill area thoroughly.

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors. Avoid contact with skin and eyes. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and ignition sources.

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 pale yellow liquid
- **Odor:** Floral, woody odor
- **Boiling Point:** 285 °C
- **Flash Point:** 120 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Molecular Weight:** 190.28 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.
- **Conditions to Avoid:** Heat, flames, sparks, static discharge.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause allergic skin reactions in sensitive individuals. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic organisms.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.
- **Mobility in Soil:** Low mobility due to low solubility in water.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Isopropyl Phenyl Butanal
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on some chemical inventories.
- Classified as hazardous under GHS for irritation and sensitization.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information provided is believed to be correct but does not claim to be exhaustive. Users must verify suitability under actual conditions of use. Triveni Chemicals disclaims liability for damage resulting from handling or contact.

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