

## Material Safety Data Sheet (MSDS)

### Benzylidene Acetone

Revision Date: 28-August-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Benzylidene Acetone
- **Chemical Formula:** C<sub>10</sub>H<sub>10</sub>O
- **CAS No:** 122-57-6
- **Synonyms:** 4-Phenyl-3-buten-2-one, Methyl styryl ketone
- **Recommended Use:** Used as an intermediate in organic synthesis, perfumery, and pharmaceuticals.

### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**

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- Causes skin irritation
- 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

- **Chemical Name:** Benzylidene Acetone
- **CAS Number:** 122-57-6
- **Concentration:** >95%

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if feeling unwell.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** 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 inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Protect from heat and light.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this compound.
- **Engineering Controls:** Ensure adequate ventilation and fume hood.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat.

## Section 9: Physical and Chemical Properties

- **Appearance:** Yellow crystalline solid or viscous liquid
- **Odor:** Mild aromatic odor
- **Boiling Point:** 280 °C
- **Melting Point:** 40-42 °C
- **Flash Point:** 113 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in organic solvents like ethanol and ether
- **Molecular Weight:** 146.19 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.

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## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.
- **Acute Effects:** Causes skin and eye irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis.

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## Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

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## 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:** Not regulated
- **Proper Shipping Name:** Benzylidene Acetone
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## 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.