

Material Safety Data Sheet (MSDS)

4-Phenyl-2-Butanone

Prepared by: Triveni Chemicals

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Section 1: Product Identification

- **Product Name:** 4-Phenyl-2-Butanone
- **Chemical Formula:** C₁₀H₁₂O
- **CAS No:** 2550-26-7
- **Recommended Use:** Used in perfumes, flavors, and as an intermediate in organic synthesis.
- **Supplier:**
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Section 2: Hazards Identification

- **Classification (GHS):** Eye Irritant (Category 2A), Skin Irritant (Category 2).
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Avoid contact with eyes, skin, and clothing
 - Wear protective gloves, clothing, and eye protection
 - Wash thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Chemical Name:** 4-Phenyl-2-Butanone
- **Synonyms:** Benzylacetone, 4-Phenylbutan-2-one
- **CAS Number:** 2550-26-7
- **Concentration:** >98%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with soap and water. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.
- **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 (CO₂).
- **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 contact with skin/eyes. 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:** Colorless to pale yellow liquid
- **Odor:** Sweet, floral odor
- **Boiling Point:** 230 °C

- **Melting Point:** -7 °C
- **Flash Point:** 96 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 148.21 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides.

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.

Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be highly toxic to aquatic life.

- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

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:** 4-Phenyl-2-Butanone
- **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

- **Prepared By:** Triveni Chemicals, Regulatory Affairs Department
- **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.