

## Material Safety Data Sheet (MSDS)

### Para-Tert-Butyl Cyclohexanone

Revision Date: 27-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Para-Tert-Butyl Cyclohexanone
- **Chemical Formula:** C<sub>10</sub>H<sub>18</sub>O
- **CAS No:** Not assigned (proprietary fragrance intermediate)
- **Synonyms:** 4-tert-Butylcyclohexanone; p-tert-Butylcyclohexanone
- **Recommended Use:** Used as an intermediate in fragrance and chemical synthesis.

#### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant; Eye Irritant
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation
  - Causes serious eye irritation
- **Precautionary Statements:**
  - Avoid contact with skin and eyes
  - Wear protective gloves, protective clothing, and eye protection

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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- Wash thoroughly after handling
- IF ON SKIN: Wash with plenty of water; if irritation persists, get medical advice
- IF IN EYES: Rinse cautiously with water for several minutes

## Section 3: Composition / Information on Ingredients

- **Concentration:** 95%

## Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing is difficult, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice 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. Ensure proper ventilation. Wear 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 spill area with detergent and water.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid contact with skin and eyes. Use in well-ventilated areas.
- **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. Respiratory protection if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Mild, characteristic odor
- **Boiling Point:** 210–215 °C (estimated)
- **Melting Point:** Not available
- **Flash Point:** 85 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Molecular Weight:** 154.25 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.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation. Estimated Oral LD50 (rat): >2,000 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or respiratory irritation.

## Section 12: Ecological Information

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

## Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release into the environment.

## Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Para-Tert-Butyl Cyclohexanone
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## Section 15: Regulatory Information

- Not listed on major chemical inventories due to proprietary nature.
- Classified as hazardous under GHS for skin and eye irritation.
- Complies with Indian chemical safety regulations.

## Section 16: Other Information

**Disclaimer:** The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.

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