

Material Safety Data Sheet (MSDS)

Para-Isopropyl Phenol

Revision Date: 25-August-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Para-Isopropyl Phenol
- **Chemical Formula:** C₉H₁₂O
- **CAS No:** 99-89-8
- **Synonyms:** 4-Isopropylphenol, p-Isopropylphenol, Carvacrol isomer
- **Recommended Use:** Intermediate in organic synthesis, used in resins, plastics, and specialty chemicals.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Corrosive (Category 1B), Eye Damage (Category 1), Acute Toxicity Oral (Category 4).
- **Signal Word:** Danger
- **Hazard Statements:**

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GROUP OF Triveni CHEMICALS

- Causes severe skin burns and eye damage
- Harmful if swallowed
- **Precautionary Statements:**
 - Do not breathe dust, fumes, or vapors
 - Wear protective gloves, clothing, eye and face protection
 - Wash hands thoroughly after handling
 - Keep away from food, drinks, and animal feed

Section 3: Composition / Information on Ingredients

- **Concentration:** >95%

Section 4: First Aid Measures

- **Inhalation:** Move victim to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash skin immediately with plenty of water. Seek medical attention.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** 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 skin/eye contact. Ensure proper ventilation.
- **Environmental Precautions:** Prevent entry into drains, waterways, and soil.
- **Cleanup Methods:** Neutralize with sodium bicarbonate. Absorb with inert material and collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Handle in a chemical fume hood. Avoid inhalation, ingestion, and contact with skin/eyes.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Keep away from oxidizing agents and strong bases.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established for Para-Isopropyl Phenol.
- **Engineering Controls:** Provide local exhaust ventilation and safety showers/eyewash stations.
- **Personal Protective Equipment:** Protective gloves, chemical-resistant clothing, goggles/face shield, and respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** White to off-white crystalline solid
- **Odor:** Phenolic odor
- **Melting Point:** 119–122 °C
- **Boiling Point:** 238 °C
- **Flash Point:** 110 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol, ether, and organic solvents
- **Molecular Weight:** 136.19 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.

- **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes severe skin burns and eye damage. Harmful if swallowed or inhaled.
- **Chronic Effects:** Prolonged exposure may cause respiratory tract damage, dermatitis, and organ effects.

Section 12: Ecological Information

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

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** 2430
- **Proper Shipping Name:** Para-Isopropyl Phenol
- **Hazard Class:** 8
- **Packing Group:** II

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per 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.