

Material Safety Data Sheet (MSDS)

Hydroquinone Monomethyl Ether

Revision Date: 25-August-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Hydroquinone Monomethyl Ether (MEHQ, p-Methoxyphenol)
- **Chemical Formula:** C₇H₈O₂
- **CAS No:** 150-76-5
- **Synonyms:** MEHQ, p-Methoxyphenol, 4-Methoxyphenol
- **Recommended Use** Polymerization inhibitor, stabilizer, antioxidant, and intermediate in chemical synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Acute Toxicity Oral (Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A), Specific Target Organ Toxicity - Single Exposure (Category 3), Hazardous to aquatic environment (Category 2).
- **Signal Word:** Warning

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• **Hazard Statements:**

- Harmful if swallowed
- Causes skin and eye irritation
- May cause respiratory irritation
- Toxic to aquatic life with long-lasting effects

• **Precautionary Statements:**

- Avoid breathing dust or vapors
- Avoid contact with eyes and skin
- Wear protective gloves and eye protection
- Avoid release into environment

Section 3: Composition / Information on Ingredients

- **Concentration:** >99%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation occurs.

- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, 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 personal protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of dust/vapors and contact with skin/eyes. Use only in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from light and air.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV: 5 mg/m³ (TWA).
- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, dust mask or respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** White to off-white crystalline solid
- **Odor:** Phenolic odor
- **Melting Point:** 54-56 °C
- **Boiling Point:** 243 °C
- **Flash Point:** 152 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in alcohol, ether, chloroform

- **Molecular Weight:** 124.14 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions. Sensitive to light and air.
- **Incompatible Materials:** Strong oxidizing agents, strong bases, metals.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes skin, eye, and respiratory irritation.
- **Chronic Effects:** Prolonged exposure may cause liver, kidney, and blood effects. Sensitization possible.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects.
- **Persistence and Degradability:** Expected to be biodegradable under normal conditions.
- **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 environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Hydroquinone Monomethyl Ether (MEHQ)
- **Hazard Class:** Not classified as dangerous goods under transport regulations
- **Packing Group:** Not applicable

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.

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