



## **MATERIAL SAFETY DATA SHEET**

### 01. **CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:**

- Product Name : 4- Methoxyphenol  
- Manufacturer/Supplier : CAMLIN FINE CHEMICALS LIMITED  
Plot No. F/ 11 & F/12, WICEL,  
MIDC, Marol, Central Road,  
Opp. SEEPZ Main Gate,  
Andheri (East), Mumbai – 400 093,  
INDIA  
- MSDS prepared by : Camlin Fine Chemicals Limited  
- Chemical Name : 4-Methoxyphenol  
- Synonym(s) : Hydroquinone Monomethyl Ether  
- Molecular Formula : C<sub>7</sub>H<sub>8</sub>O<sub>2</sub>  
- Molecular Weight : 124.14

### 02. **COMPOSITION, INFORMATION ON INGREDIENTS:**

CAS No. : 150-76-5  
Chemical Name : 4 - Methoxyphenol  
Percentage : 99%  
Hazard Symbols : Xi  
Risk Phrases : 22,36,43

### 03. **HAZARDS IDENTIFICATION:**

#### **Potential Acute Health Effects:**

Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching.

#### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to the nervous system, upper respiratory tract.

Repeated or prolonged exposure to the substance can produce target organs damage.



04. **FIRST-AID MEASURES:**

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for atleast 15 minutes,keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.



05. **FIRE FIGHTING MEASURES:**

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 421°C (789.8°F)

**Flash Points:** OPEN CUP: 132°C (269.6°F).

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO2).

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

06. **ACCIDENT RELEASE MEASURES:**

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

07. **HANDLING AND STORAGE:**

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Storage:**

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.



08. **EXPOSURE CONTROLS, PERSONAL PROTECTION:**

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus Should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:**

TWA: 5 (mg/m<sup>3</sup>) from ACGIH

Consult local authorities for acceptable exposure limits.

09. **PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical state and appearance:** Solid.

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 124.14 g/mole

**Color:** Not available.

**pH (1% soln/water):** Not available.

**Boiling Point:** 243°C (469.4°F)

**Melting Point:** 52°C (125.6°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 1.55 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** 4.3 (Air = 1)

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** The product is more soluble in oil; log(oil/water) = 1.3

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water.

**Solubility:** Partially soluble in cold water.



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10. **STABILITY AND REACTIVITY:**

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Not available.  
**Incompatibility with various substances:** Not available.  
**Corrosivity:** Non-corrosive in presence of glass.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** No.

11. **TOXICOLOGICAL INFORMATION:**

**Routes of Entry:** Eye contact. Inhalation. Ingestion.  
**Toxicity to Animals:** Acute oral toxicity (LD50): 1600 mg/kg [Rat].  
**Chronic Effects on Humans:** The substance is toxic to the nervous system, upper respiratory tract.  
**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation.  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:** Not available.

12. **ECOLOGICAL INFORMATION:**

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:**  
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.  
**Special Remarks on the Products of Biodegradation:** Not available.

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13. **DISPOSAL CONSIDERATIONS:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRAP-Series:** None listed.

**RCRA U-Series:** None listed.

14. **TRANSPORT INFORMATION:**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

15. **REGULATORY INFORMATION:**

**Federal and State Regulations:**

Pennsylvania RTK : 4-Methoxyphenol

Florida: 4-Methoxyphenol

Minnesota: 4-Methoxyphenol

Massachusetts RTK: 4-Methoxyphenol

New Jersey: 4-Methoxyphenol

TSCA 8(b) inventory: 4-Methoxyphenol

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

**HMIS (U.S.A.):**

**Health Hazard:** 2

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 2

**Flammability:** 1

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**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

16. **ADDITIONAL INFORMATION:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Camlin be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Camlin has been advised of the possibility of such damages.