

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

MSDS Name: 4-Methoxy phenol
Synonyms: 4-Hydroxyanisole
Company Identification: Shanghai PI Chemicals Ltd.
Room 6-306, Building 2
1341 Pudong South Road
Pudong New Area, Shanghai 200212, China
Telephone Number: 86-21-51389368
Fax Number: 86-21-51389367
Emergency Number: 86-21-51389369

Section 2 – Product Information

Catalog Number: PI-31355
CAS #: 150-76-5
Purity: 98.0%
EINECS# 205-769-8

Section 3 – Physical and Chemical Properties

Appearance: White to pale pink solid
Odor: Faint odor - phenol-like
Molecular Formula: $C_7H_8O_2$
Molecular Weight: 124.14
Freezing/Melting Point: 55-57°C
Boiling Point: 243°C (760mmHg)
Flash Point: 133°C
Refractive Index (nD20): Not available
Density: Not available
Decomposition Temperature: Not available
Solubility: 40g/l in water (25°C); 455g/100g ethyl alcohol (25°C)
426g/100g acetone (25°C); 70g/100g benzene (25°C)

Section 4 – Hazards Identification

Eye: Causes eye irritation. May result in corneal injury. May cause eye injury. Causes redness and

pain.

- Skin:** May be absorbed through damaged or abraded skin in harmful amounts. May be harmful if absorbed through the skin. May cause reddening of the skin. If absorbed, may cause central nervous system effects. May cause depigmentation of the skin. Produces primary irritant dermatitis, sensitization dermatitis, and skin ulcerations.
- Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause liver damage. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause necrotic changes in the gastrointestinal tract.
- Inhalation:** May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May be harmful if inhaled. May cause cardiac abnormalities.

Section 5 – First Aid Measures

- Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Skin:** Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:** Get medical aid immediately. Wash mouth out with water.
- Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 6 – Stability and Reactivity

- Chemical Stability:** Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air
- Materials to avoid:** Oxidizing agents, bases, acid chlorides, finely powdered metals, acid anhydrides, alkali hydroxides.
- Conditions to Avoid:** Incompatible materials, light, ignition sources, exposure to air, excess heat, exposure to moist air or water.
- Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, phenol.
- Hazardous Polymerization:** Will not occur.

Section 7 – Handling and Storage

- Handling:** Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.
- Storage:** Store in a cool, dry place. Store in a tightly closed container. Store protected from light and air.

Section 8 – Personal Protection

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 – Fire and Explosion Hazard Data

- General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 – Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

Section 11 – Toxicological Information

- RTECS#:** CAS# 150-76-5: SL7700000
- LD50/LC50:** RTECS: CAS# 150-76-5: Draize test, rabbit, skin: 6 gm/12D (Intermittent) Mild;
Draize test, rabbit, skin: 10%; Oral, rat: LD50 = 1600 mg/kg
- Carcinogenicity:** 4-Methoxy phenol- Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 – Environmental information

- Ecotoxicity:** Fish: Goldfish: LC50 = +/- 200 mg/l; 48 H;
Fish: Fathead Minnow: LC50 = 140 mg/l; 96 H; flowthrough bioassay
Daphnia: Daphnia: EC50 = 13 mg/l; 24 H
- Other:** Biodegradable. Avoid entering into waters or underground water. Do not empty into drains. log POW = 1.34

Section 13 – Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 – Transport Information

Not regulated as a hazardous material.

Section 15 – Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 150-76-5: 1

Canada

CAS# 150-76-5 is listed on Canada's DSL List

US Federal

TSCA

CAS# 150-76-5 is listed on the TSCA Inventory.

Section 16 – Additional Information

MSDS Creation Date: 2/22/2007

Update: Original

The above information is believed to be accurate and represents the best knowledge available to us currently. 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 PI Chemicals, 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, even if PI Chemicals has been advised of the possibility of such damages.