

## **MATERIAL SAFETY DATA SHEET**

### **2-CHLOROPHENOL 98% (O-Chloro Phenol) (For Synthesis) MSDS CAS: 95-57-8**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name: 2-CHLOROPHENOL**

**CAS#: 95-57-8**

**Synonym: O-Chlorophenol**

**Chemical Name: 2-CHLOROPHENOL**

**Chemical Formula: C<sub>6</sub>H<sub>5</sub>ClO**

**Brand : OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet :**

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
2-CHLOROPHENOL	95-57-8	100

## Section 2: Composition and Information on Ingredients (Continued)

**Toxicological Data on Ingredients:** 2-Chlorophenol : ORAL (LD50): Acute: 40 mg/kg [Rat]. 345 mg/kg [Mouse].

## Section 3: Hazards Identification

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

Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Hazardous in case of eye contact (irritant). Severe over-exposure can result in death.

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

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Classified Development toxin [POSSIBLE]. The substance may be toxic to kidneys, liver, upper respiratory tract, skin, central nervous system (CNS), legs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## Section 4: First Aid Measures

### **Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

### **Serious Skin Contact:**

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

## Section 4: First Aid Measures (Continued)

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

### Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Serious Ingestion: Not available.

## Section 5: Fire and Explosion Data

Flammability of the Product: Combustible.

Auto-Ignition Temperature: Not available.

Flash Points: CLOSED CUP: 64°C (147.2°F).

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO<sub>2</sub>), halogenated compounds.

### Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks, of heat.

### 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.

## Section 5: Fire and Explosion Data (Continued)

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

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

## Section 6: Accidental Release Measures

**Small Spill:**

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill:**

Combustible material. Poisonous liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

## Section 7: Handling and Storage

**Precautions:**

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. 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. Keep away from incompatibles such as oxidizing agents.

**Storage:**

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

## Section 8: Exposure Controls/Personal Protection (Continued)

### Personal Protection:

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

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

Splash goggles. Full suit. Vapor 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: Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid.

<b>Odor</b>	: Unpleasant.
<b>Taste</b>	: Not Available.
<b>Molecular Weight</b>	: 128.6 g/mole
<b>Color</b>	: Yellow. (Light.)
<b>pH (1% soln/water)</b>	: Not available.
<b>Boiling Point</b>	: 174.9°C (346.8°F)
<b>Melting Point</b>	: 9.8 (49.6°F)
<b>Critical Temperature</b>	: Not available.
<b>Specific Gravity</b>	: Not available.
<b>Vapor Pressure</b>	: 0.3 kPa (@ 20°C)
<b>Vapor Density</b>	: 4.4 (Air = 1)
<b>Volatility</b>	: Not available.
<b>Odor Threshold</b>	: 1.24 ppm
<b>Water/Oil Dist. Coeff.</b>	: The product is more soluble in oil; log(oil/water) = 2.1
<b>Ionicity (in Water)</b>	: Not available.
<b>Dispersion Properties</b>	: Dispersed in methanol. Partially dispersed in diethyl ether. See solubility in water, methanol, diethyl ether.
<b>Solubility</b>	: Soluble in methanol. Partially soluble in diethyl ether.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 40 mg/kg [Rat].

**Chronic Effects on Humans:**

**DEVELOPMENTAL TOXICITY:** Classified Development toxin [POSSIBLE]. May cause damage to the following organs: kidneys, liver, upper respiratory tract, skin, central nervous system (CNS), legs.

**Other Toxic Effects on Humans:**

Very 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.

## Section 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 as toxic as the product itself.

Special Remarks on the Products of Biodegradation: Not available.

## Section 13: Disposal Considerations

Waste Disposal :

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name: CHLOROPHENOLS, LIQUID

UN N°: 2021

H.I. nr: 60

ADR - Class: 6.1

Labelling - Transport: 6.1 : Toxic substances.

ADR - Group: III

### Sea transport (IMDG) [English only]

Proper shipping name: CHLOROPHENOLS, LIQUID

UN N°: 2021

IMO-IMDG - Class or division: 6.1 : Toxic substances.

IMO-IMDG - Packing group: III



## Section 14: Transport Information (Continued)

### Air transport (ICAO-IATA) [English only]

Proper shipping name: CHLOROPHENOLS, LIQUID

UN N°: 2021

IATA - Class or division: 6.1 : Toxic substances.

IATA - Packing group: III

## Section 15: Other Regulatory Information

### Federal and State Regulations:

Pennsylvania RTK: o-Chlorophenol Minnesota: o-Chlorophenol Massachusetts RTK: o-Chlorophenol New Jersey: o-Chlorophenol TSCA 8(b) inventory: o-Chlorophenol TSCA 8(d) H and S data reporting: o-Chlorophenol: June 1999

### Other Regulations:

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

WHMIS (Canada): CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC): R25- Toxic if swallowed. R36/38- Irritating to eyes and skin. R40- Possible risks of irreversible effects. R63- Possible risk of harm to the unborn child.

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

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: h

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

Health: 3

Flammability: 2

Reactivity: 0

Specific hazard:



## **Section 15: Other Regulatory Information (Continued)**

### **Protective Equipment:**

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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