

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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Tel: +91 250 2390032 / 2390989 / 2390990
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MATERIAL SAFETY DATA SHEET

2,4-DICHLOROPHENOL 98%

(For Synthesis)

MSDS CAS: 120-83-2

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 2,4-DICHLOROPHENOL

CAS#: 120-83-2

Synonym: Not Available.

Chemical Name: 2,4-Dichlorophenol

Chemical Formula: C₆H₄Cl₂O

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.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2,4-Dichlorophenol	120-83-2	100

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Section 3: Hazards Identification

Risk advice to man and the environment:

Harmful if swallowed. Toxic in contact with skin. Causes burns. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Section 4: First Aid Measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

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Section 6: Accidental Release Measures

Personal precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 8: Exposure Controls/Personal Protection (Continued)

Hand protection:

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Face shield and safety glasses.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product.

Section 9: Physical and Chemical Properties

Appearance Form	: Crystalline.
Colour	: Light Brown.
Molecular Weight	: 163.00 g/mole.
pH	: No data available.
Melting point	: 42 - 43 °C - lit.
Boiling point	: 209 - 210 °C - lit.
Flash point	: 114,0 °C - Closed cup.
Ignition temperature	: No data available.
Lower explosion limit	: No data available.
Upper explosion limit	: No data available.
Vapour pressure	: 0,1 hPa at 25,0 °C
Density	: 1,38 g/cm ³ at 60,00 °C
Water solubility	: No data available.
Partition coefficient	: n-octanol/water log Pow: 3,06.

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Section 10: Stability and Reactivity Data

Storage stability:

Stable under recommended storage conditions.

Materials to avoid:

Oxidizing agents, acids, Acid chlorides, Acid anhydrides, Metals.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas.

Section 11: Toxicological Information

Acute toxicity:

LD50 Oral - rat - 47,0 mg/kg Remarks: Behavioral: Food intake (animal). Lungs, Thorax, or Respiration: Dyspnea. Gastrointestinal: Other changes. LD50 Dermal - Mammal - 790,0 mg/kg.

Irritation and corrosion:

Skin - rabbit - Severe skin irritation - 24 h - Draize Test.

Sensitisation: No data available.

Chronic exposure:

IARC: 2B - Group 2B: Possibly carcinogenic to humans (2,4-Dichlorophenol) 2B - Group 2B: Possibly carcinogenic to humans (2,4-Dichlorophenol).

Signs and Symptoms of Exposure:

Spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Weakness, Lowered blood pressure, Tremors, Dizziness, Confusion., Convulsions, Cyanosis, Shock., Unconsciousness, Symptoms may be delayed., Molten or hot 2,4-Dichlorophenol is immediately absorbed through the skin in amounts which have caused death in humans. Rapid death in humans has been caused by skin exposure without immediate decontamination. Amounts of molten 2,4-Dichlorophenol that may cover as little as 1% body surface area (hand-size) may cause death.

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Section 11: Toxicological Information (Continued)

Potential Health Effects:

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Toxic if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Ingestion Harmful if swallowed. Causes burns.

Target Organs Liver, Kidney, Blood.

Section 12: Ecological Information

Elimination information (persistence and degradability):

Bioaccumulation Carassius auratus (goldfish) - 24 h.

Bioconcentration factor (BCF): 34.

Ecotoxicity effects:

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 1,60 - 2,60 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 2,20 - 3,10 mg/l - 96 h

LC50 - Carassius auratus (goldfish) - 0,80 - 2,50 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 2,70 - 3,90 mg/l - 24 h

LC50 - Daphnia magna (Water flea) - 0,00261 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 9,20 mg/l - 96 h

Growth inhibition EC50 - Chlorella vulgaris (Fresh water algae) - 9,2 mg/l - 96 h

Further information on ecology:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

Product:

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.

UN N°: 2928

H.I. nr: 68

ADR - Class: 6.1

Labelling - Transport: 6.1 : Toxic substances. 8 : Corrosive substance.

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.

UN N°: 2928

IMO-IMDG - Class or division: 6.1 : Toxic substances. 8 : Corrosive substance.

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.

UN N°: 2928

IATA - Class or division: 6.1 : Toxic substances. 8 : Corrosive substance.

IATA - Packing group: II

Section 15: Other Regulatory Information

Labelling according to EC Directives

EC Label

Hazard symbols

T Toxic

C Corrosive

N Dangerous for the environment

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Section 15: Other Regulatory Information (Continued)

R-phrase(s):

R22 Harmful if swallowed.

R24 Toxic in contact with skin.

R34 Causes burns.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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