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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

# 2,4-DICHLOROPHENOL

## SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

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| **1.1 Product identifier**: | |
| **CAS Number:** | 120-83-2 |
| **EC number:** | 204-429-6 |
| **1.2 SYNONYMS:** | • 2,4-Dichlorophenol<br>• 2,4-DCP<br>• 2,4-Dichlorohydroxybenzene<br>• 2,4-Dichlorophenol (also known as 2,4-DC)<br>• Dichlorophenol, 2,4-<br>• Phenol, 2,4-dichloro- |

## SECTION 2: Hazards identification:

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| **2.1 Classification of the substance or mixture:** | Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation. |
| **2.2 Label elements:** | Labelling according to Regulation (EC) No 1272/2008<br>Acute toxicity, oral (Category 4)<br>Acute toxicity, dermal (Category 3)<br>Skin corrosion, (Category 1B)<br>Serious eye damage, (Category 1)<br>Long-term (chronic) aquatic hazard, (Category 2) |
| **Hazard Pictograms:** |  |
| **Signal Word:** | Danger |
| **Hazard statements:** | **H302:** Harmful if swallowed.<br>**H311:** Toxic in contact with skin.<br>**H314:** Causes severe skin burns and eye damage.<br>**H411:** Toxic to aquatic life with long lasting effects. |

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| **Precautionary Statements:** | **P260:** Do not breathe dusts or mists.<br>**P273:** Avoid release to the environment.<br>**P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>**P301 + P312:** IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.<br>**P303 + P361 + P353:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.<br>**P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>**P405:** Store locked up.<br>**P501:** Dispose of contents/ container to an approved waste disposal plant. |
| **2.3 Other hazards:** | |
| **Inhalation**: | can cause respiratory irritation, coughing, shortness of breath, and may lead to more severe effects with prolonged exposure. |
| **Ingestion:** | can cause nausea, vomiting, abdominal pain, dizziness, and potentially more severe symptoms like liver or kidney damage with significant exposure. |
| **Skin Contact:** | can cause irritation, redness, and dermatitis, and prolonged exposure may lead to more severe skin damage. |
| **Eye contact:** | can cause irritation, redness, pain, and potential damage to the cornea with prolonged exposure. |
| **Chronic Exposure:** | may lead to liver and kidney damage, neurological effects, and |

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| | potential carcinogenicity with prolonged or repeated contact. |
| **Aggravation of pre-existing conditions:** | may aggravate pre-existing conditions such as liver or kidney disease, respiratory disorders, and skin conditions like dermatitis. |

## SECTION 3: Composition/information on ingredients

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| **3.1 Chemical characterisation:** | Substances |
| **CAS No:** | Description: 120-83-2 2,4-DICHLOROPHENOL |
| **Identification number(s):** | EC number: 204-429-6 |

## SECTION 4: First aid measures

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| **4.1 Description of first aid measures** | |
| **General information:** | |
| **After inhalation:** | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **After skin contact:** | Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician. |
| **After eye contact:** | Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician. |
| **After swallowing:** | Rinse mouth with water. Immediately after ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician. |
| **4.2 Most important symptoms and effects, both acute and delayed:** | can cause respiratory irritation, nausea, vomiting, and skin or eye irritation, while delayed effects may include liver and kidney damage, |

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| | and potential long-term neurological or carcinogenic impacts. |
| **4.3 Indication of any immediate medical attention and special treatment needed:** | Treat symptomatically. |

## SECTION 5: Firefighting measures

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| **5.1 Extinguishing media:** | Carbon dioxide foam dry powder |
| **5.2 Special hazards arising from the substance or mixture:** | Carbon oxides, hydrogen chloride |
| **5.3 Advice for firefighters:** | Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety. |
| **5.4 further information:** | no data available |

## SECTION 6: Accidental release measures

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| **6.1 Personal precautions, protective equipment and emergency procedures:** | Use personal protective equipment.<br>Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention. |
| **6.2 Environmental precautions:** | Do not enter this chemical into drains. |
| **6.3 Methods and material for containment and cleaning up:** | Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. |

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| | Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling |

## SECTION 7: Handling and storage

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| **7.1 Precautions for safe handling:** | For use in are with adequate ventilation.<br>Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material<br>Do not use in confined spaces.<br>Electrostatic discharge protection.<br>Minimize dust generation and accumulation. Avoid ingestion and inhalation. |
| **7.2 Conditions for safe storage, including any incompatibilities:** | Store in original containers.<br>Keep containers securely sealed<br>Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.<br>Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.<br>Keep away from moisture. |
| **Requirements to be met by storerooms and receptacles:** | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| **7.3 Specific end uses:** | no data available |

## SECTION 8: Exposure controls/personal protection

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| **8.1 Control parameters** | |
| **Additional information about design of technical facilities:** | A system of local and general exhaust is recommended. |
| **8.2 Exposure controls** | |

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|---|---|
| **Appropriate engineering controls** | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |
| **Personal protective equipment:** | Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc. |
| **General protective and hygienic measures:** | Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. |
| | **Respiratory protection:** Required. |
| **Protection of hands:** | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands. |
| | **Eye protection:** Required |
| **Protection of Body:** | Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. |

## SECTION 9: Physical and chemical properties

| **9.1 Information on basic physical and chemical properties General Information** | |
|---|---|
| **Appearance: Form:** | Crystalline |
| **Colour:** | White to light brown |
| **Odour:** | Slightly unpleasant |
| **pH-value:** | 6 |
| **Melting point/Melting range:** | 52°C |
| **Boiling point/Boiling range:** | 174°C |
| **Flammability (solid, gaseous):** | Flammable |
| **Ignition temperature:** | 585°C |
| **Decomposition temperature:** | 230°C |

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|---|---|
| **Self-igniting:** | None |
| **Flash point:** | 90°C |
| **Danger of explosion:** | None |
| **Explosion limits: Lower:** | No data available |
| **Explosion limits: Upper:** | No data available |
| **Vapour pressure:** | 0.001 mmHg at 25°C |
| **Density at 20 °C:** | 1.43 g/cm$^3$ |
| **Relative density:** | 1.43 |
| **Vapour density:** | No data available |
| **Evaporation rate:** | No data available |
| **Solubility in / Miscibility with-·water at 20 °C:** | Low Soluble |
| **Partition coefficient:(n-octanol/water)** | 3.56 |
| **Viscosity:** | No data available |

## SECTION 10: Stability and reactivity

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| **10.1 Reactivity** | No data available |
| **10.2 Chemical stability** | This chemical is stable under storage conditions. |
| **10.3 Possibility of hazardous reactions** | May react with strong acids, bases and oxidizers to form hazardous products. |
| **10.4 Conditions to avoid** | High temperatures, direct sunlight, moisture. |
| **10.5 Incompatible materials** | Strong acids, strong bases, strong oxidizers, alkaline materials. |
| **10.6 Hazardous decomposition products** | Chlorine gas, hydrogen chloride, phosgene |

## SECTION 11: Toxicological information

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|---|---|
| **11.1 Information on toxicological effects** | |
| **Acute Toxicity:** | **LD50** (Oral, Rat): 1.276 mg/kg<br>**LD50** (Dermal, Rabbit): 780 mg/kg<br>**LC50** (Inhalation Rat): no data available |

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|---|---|
| **Skin corrosion/Irritation:** | Causes serious skin burns |
| **Serious eye damage/irritation:** | Causes serious eye damage |
| **Respiratory damage/irritation:** | No data available |
| **Ingestion:** | No data available |
| **Germ cell mutagenicity:** | No data available |
| **Carcinogenicity:** | No data available |
| **Reproductive toxicity:** | No data available |
| **Specific target organ toxicity - single exposure:** | No data available |
| **Specific target organ toxicity - repeated exposure:** | No data available |
| **Aspiration hazard:** | No data available |
| **Signs and Symptoms of Exposure:** | Refer section 2.3 |
| **11.2 Additional toxicological information** | |
| **Biodegradability:** | Not Biodegradable |

## SECTION 12: Ecological information

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|---|---|
| **12.1 Toxicity**<br>**Aquatic toxicity:** | LC50(fish): 1.24 mg/l (96hr)<br>EC50(daphnia): 2.8 mg/l (48 hr)<br>ErC50(algae): 3.44 mg/l (72 hr) |
| **12.2 Persistence and degradability:** | Not Biodegradable |
| **12.3 Bioaccumulative potential:** | Moderate bioaccumulative |
| **12.4 Mobility in soil:** | Moderate mobility |
| **12.5 Other adverse effects:** | No data available |

## SECTION 13: Disposal considerations

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|---|---|
| **13.1 Waste treatment methods** | |
| **Uncleaned packaging**<br>**Recommendation:** | dispose of in accordance with local hazardous waste regulations |
| **Recommended cleansing agents:** | Water and soap, water, isopropyl alcohol, commercial absorbent pads |

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## SECTION 14: Transport information

| | |
|---|---|
| **14.1 UN-Number · ADR, ADN, IMDG, IATA:** | 2020 |
| **14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:** | 2,4-DICHLOROPHENOL |
| **14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA** : | 6.1 |
| **14.4 Packing group · ADR, IMDG, IATA:** | 3 |
| **14.5 Environmental hazards:** | Yes, harmful to aquatic life. |
| **14.6 Special precautions for user:** | Handle responsibly. |

## SECTION 15: Regulatory information

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|---|---|
| **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU** | Directive 2012/18/EU, under that this substance is classified in listed substances as environmentally hazardous and health hazard substances |
| **Named dangerous substances:** | This substance is not listed in the annex 1 to the directive. |
| **15.2 Chemical safety assessment:** | Chemical assessment has not been carried out. |

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.