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**MATERIAL SAFETY DATA SHEET (MSDS)**  
**2,4-DICHLOROPHENOL (FOR SYNTHESIS)**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Trade name : 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

Product code : D0084000100

Identification of the product : 2,4-dichlorophenol  
CAS No :120-83-2  
EC No :204-429-6  
Annex No :604-011-00-7

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use : Industrial. For professional use only.

**1.3. Details of the supplier of the safety data sheet**

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD**

**2.1. Classification of the substance or mixture**

**Classification EC 67/548 or EC 1999/45**

Classification : T; R24  
Xn; R22  
C; R34  
N; R51-53

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Health hazards : Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311  
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314  
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP :  
Aquatic Chronic 2) H411

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**2,4-DICHLOROPHENOL (FOR SYNTHESIS)**
**2. Hazards identification -DSD (continued)**
**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

: T : Toxic  
 N : Dangerous for the environment

**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)**

: S1/2 : Keep locked up and out of reach of children.  
 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 when possible).  
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Contains**

: 2,4-dichlorophenol

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

: H314 : Causes severe skin burns and eye damage.  
 H311 : Toxic in contact with skin.  
 H302 : Harmful if swallowed.  
 H411 : Toxic to aquatic life with long lasting effects.

**Precautionary statements**
**• General**

: P102: Keep out of reach of children.  
 P103: Read label before use.  
 P101: If medical advice is needed, have product container or label at hand.

**• Prevention**

: P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P273: Avoid release to the environment.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 2. Hazards identification -DSD (continued)

- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
P391: Collect spillage.  
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.  
P361: Remove immediately all contaminated clothing.
- **Storage** : P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : 2,4-dichlorophenol

#### 2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

- Substance / Preparation** : 2,4-dichlorophenol  
CAS No :120-83-2  
EC No :204-429-6  
Annex No :604-011-00-7  
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
2,4-dichlorophenol	100 %	120-83-2	204-429-6	604-011-00-7	---	T; R24 Xn; R22 C; R34 N; R51-53 ----- Acute Tox. 3 (skin) _ H311 Skin Corr. 1B _ H314 Eye Dam 1 _ H318 Acute Tox. 4 (oral) _ H302 Aquatic Chronic 2 _ H411

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 4. First aid measures (continued)

- Eye contact** : Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms relating to use** : Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
 Causes severe skin burns and eye damage.  
 Causes serious eye damage.  
 Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

##### 5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.  
 Thermal decomposition generates : Corrosive vapours.

##### 5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 6. Accidental release measures (continued)

**For non-emergency personnel** : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.  
Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

##### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage regulation** : Comply with applicable regulations.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

##### 7.3. Specific end use(s)

**Specific end use(s)** : None.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• **Respiratory protection** : Wear approved mask.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**2,4-DICHLOROPHENOL (FOR SYNTHESIS)**
**8. Exposure controls/personal protection (continued)**

- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or face shield.
- Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C	: Solid.
Colour	: White crystal
Odour	: Phenolic odour
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 37 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 6530C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 1040C
Boiling point [°C]	: 209 - 210 °C
Initial boiling point [°C]	: 209°C
Final boiling point [°C]	: 210 °C
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.12 mm Hg at 20 °C
Vapour pressure mm/Hg	: 0.12 mm Hg 20 °C
Vapour density	: 5,6
Density [g/cm <sup>3</sup> ]	: 1,382
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slightly soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 9. Physical and chemical properties (continued)

##### 9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

#### 10. Stability and reactivity

##### 10.1. Reactivity

Reactivity	: Not established.
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##### 10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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##### 10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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##### 10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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##### 10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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##### 10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.
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#### 11. Toxicological information

##### 11.1. Information on toxicological effects

##### Acute toxicity

• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Toxic in contact with skin.
• Ingestion	: Harmful if swallowed.



## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 11. Toxicological information (continued)

<b>Corrosion</b>	: Causes severe skin burns and eye damage.
<b>Irritation</b>	: Based on available data, the classification criteria are not met.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Toxic to aquatic life with long lasting effects.

##### 12.2. Persistence - degradability

**Persistence - degradability** : May cause long-term adverse effects in the environment.

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

##### 12.4. Mobility in soil

**Mobility in soil** : Not established.

##### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection



### MATERIAL SAFETY DATA SHEET (MSDS)

## 2,4-DICHLOROPHENOL (FOR SYNTHESIS)

#### 13. Disposal considerations (continued)

**Special precautions** : point, in accordance with local, regional, national and/or international regulation.  
: Hazardous waste due to toxicity.

#### 14. Transport information

##### 14.1. 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 - Classification code** : TC2  
**ADR - Group** : II  
**ADR - Packing instructions** : P002  
**ADR - Limited Quantity** : 500 G  
**ADR - Tunnel code**



: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

##### 14.2. 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  
**IMO-IMDG - Packing instructions** : P002  
**IMO-IMDG - Limited quantities** : 500 g  
**IMO-IMDG - Marine pollution** : Yes  
**EMS-Nr** : F-A S-B

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

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**2,4-DICHLOROPHENOL (FOR SYNTHESIS)**
**14. Transport information (continued)**

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
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 668
- Passenger and Cargo - Maximum Quantity/Packing	: 15 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 675
- Cargo only - Maximum Quantity/Packing	: 50 kg
IATA - Limited Quantities	: 1 kg
ERG-Nr	: 6C

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment	: It has not been carried out.
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**16. Other information**

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)	: 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.

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**2,4-DICHLOROPHENOL (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**