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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 : D0084000500

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.

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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.

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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 ³]	: 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 ² /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.

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11. Toxicological information (continued)

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

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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:

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