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**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name : P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)

Product code : C0067005000

Identification of the product : 4-chloro-3-methylphenol  
 CAS No :59-50-7  
 EC No :200-431-6  
 Annex No :604-014-00-3

**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 : Xn; R21/22  
 Xi; R41  
 R43  
 N; R50

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

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317  
 Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

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**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**2. Hazards identification -DSD (continued)**
**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

: Xn : Harmful  
 N : Dangerous for the environment

**R Phrase(s)**

: R21/22 : Harmful in contact with skin and if swallowed.  
 R41 : Risk of serious damage to eyes.  
 R43 : May cause sensitization by skin contact.  
 R50 : Very toxic to aquatic organisms.

**S Phrase(s)**

: S2 : Keep out of the 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.  
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Contains**

: 4-chloro-3-methylphenol

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

**Signal words**

: Danger

**Hazard statements**

: H318 : Causes serious eye damage.  
 H302 : Harmful if swallowed.  
 H312 : Harmful in contact with skin.  
 H317 : May cause an allergic skin reaction.  
 H400 : Very toxic to aquatic life.

**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.  
 P261: Avoid breathing 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.  
 P272: Contaminated work clothing should not be allowed out of the workplace.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**2. Hazards identification -DSD (continued)**

- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
 P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.  
 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.  
 P333+P313: If skin irritation or rash occurs : Get medical advice.  
 P363: Wash contaminated clothing before reuse.
- **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** : 4-chloro-3-methylphenol

**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** : 4-chloro-3-methylphenol  
 CAS No :59-50-7  
 EC No :200-431-6  
 Annex No :604-014-00-3  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
4-chloro-3-methylphenol	100 %	59-50-7	200-431-6	604-014-00-3	---	Xn: R21/22 Xi: R41 R43 N; R50 ----- Eye Dam 1 _ H318 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (oral) _ H302 Skin Sens. 1 _ H317 Aquatic Acute 1 _ H400

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** : Assure fresh air breathing. Allow the victim to rest.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice. If skin irritation or rash occurs : Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- Eye contact** : Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**4. First aid measures (continued)**

**Ingestion** : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

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

**Symptoms relating to use** : Causes serious eye damage.  
 Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
 May cause an allergic skin reaction.  
 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.

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

**6.2. Environmental precautions**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**6. Accidental release measures (continued)**

**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** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapours, spray.  
Wash thoroughly after handling. Wash contaminated clothing before reuse.  
Contaminated work clothing should not be allowed out of the workplace.

**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 - 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.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**8. Exposure controls/personal protection (continued)**

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 crystalline
Odour	: Odorless
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 63 - 65 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 590 0C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 118°C
Boiling point [°C]	: 235 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.1 hPa at 20,0 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 1,37
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 5,6
Viscosity at 40°C [mm2/s]	: N/A

**9.2. Other information**

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

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**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

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

Corrosion : Causes serious eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : May cause an allergic skin reaction.

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.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Very toxic to aquatic life.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**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 point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**UN N°** : 3077  
**H.I. nr** : 90  
**ADR - Class** : 9



**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**14. Transport information (continued)**
**Labelling - Transport** : 9 : Miscellaneous dangerous substances and articles.


**ADR - Classification code** : M7  
**ADR - Group** : III  
**ADR - Packing instructions** : P002 R001 LP002  
**ADR - Limited Quantity** : 5 KG  
**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.


**14.2. Sea transport (IMDG). [English only]**

**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**UN N°** : 3077  
**IMO-IMDG - Class or division** : 9 : Miscellaneous dangerous substances and articles.  
**IMO-IMDG - Packing group** : III  
**IMO-IMDG - Packing instructions** : P002 LP02  
**IMO-IMDG - Limited quantities** : 5 kg  
**IMO-IMDG - Marine pollution** : Yes  
**EMS-Nr** : F-A S-F

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

**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**UN N°** : 3077  
**IATA - Class or division** : 9 : Miscellaneous dangerous substances and articles.  
**IATA - Packing group** : III  
**IATA - Passenger and Cargo Aircraft** : ALLOWED  
   - Passenger and Cargo - Packing : 956  
**instruction**  
   - Passenger and Cargo - Maximum : 400 kg  
**Quantity/Packing**  
**IATA - Cargo only** : ALLOWED  
   - Cargo only - Packing instruction : 956  
   - Cargo only - Maximum Quantity/ : 400 kg  
**Packing**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**
**14. Transport information (continued)**

IATA - Limited Quantities : 30 kg G  
 ERG-Nr : 9L

**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.

**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) : R21/22 : Harmful in contact with skin and if swallowed.  
 R41 : Risk of serious damage to eyes.  
 R43 : May cause sensitization by skin contact.  
 R50 : Very toxic to aquatic organisms.  
 List of full text of H-statements in section 3 : H302 : Harmful if swallowed.  
 H312 : Harmful in contact with skin.  
 H317 : May cause an allergic skin reaction.  
 H318 : Causes serious eye damage.  
 H400 : Very toxic to aquatic life.  
 Further information : None.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**P-CHLORO-M-CRESOL (2-CHLORO-5-HYDROXY TOLUENE)**

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**