

CHLOROXYLENOL (PCMX)

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

CHLOROXYLENOL (PCMX)
Synonyms: Para-chloro-meta-xlenol; 4-Chloro-3,5-dimethylphenol; PCMX
CAS: 88-04-0

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Antiseptic and disinfectant active in personal care/hand-wash formulations, preservative in paints, adhesives and metalworking fluids, general-purpose biocide raw material. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Acute Tox. 4 (oral)	Acute oral toxicity, Category 4, H302
Skin Irrit. 2	Skin irritation, Category 2, H315
Eye Dam. 1	Serious eye damage, Category 1, H318
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic hazard, Category 2, H411

2.2 GHS label elements, including precautionary statements:

GHS: Danger

Hazard statements:

H302 – Harmful if swallowed.
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs, get medical advice/attention.
P501: Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards which do not result in classification:

Not relevant. Not a PBT/vPvB substance per current assessment criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Chloroxylenol (para-chloro-meta-xlenol)
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 88-04-0	Chloroxylenol — Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 2: H411 – Danger	≥99%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable (supplied as a technical-grade single substance; aqueous/alcoholic formulated grades available on request – see current specification sheet).

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance if symptoms are severe or persist, showing the SDS of this product.

By inhalation:

Remove the person affected to fresh air and keep at rest. Seek medical attention if discomfort persists.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with plenty of water and soap. Seek medical attention if irritation persists.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek immediate medical attention.

By ingestion/aspiration:
Rinse mouth with water. Do NOT induce vomiting. Seek medical attention, especially if large quantities are swallowed.

4.2 Most important symptoms/effects, acute and delayed:
Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:
Treat symptomatically. No specific antidote known.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:
Suitable: Water spray/fog, foam, dry chemical powder, carbon dioxide.
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:
Combustible solid. May produce hydrogen chloride, carbon monoxide and carbon dioxide on combustion.

5.3 Special protective actions for fire-fighters:
Wear SCBA and full protective clothing. Cool containers with water spray if safe to do so. Prevent fire-fighting run-off from entering drains/watercourses.

Additional provisions:
None specific.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
Avoid raising dust. Use PPE per section 8.

For emergency responders:
Wear protective equipment per section 8. Keep unprotected persons away.

6.2 Environmental precautions:
Prevent entry into drains, watercourses and soil – toxic to aquatic life.

6.3 Methods and materials for containment and cleaning up:
Sweep up and collect in a suitable labelled container for disposal. Avoid generating dust.

6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:
Avoid generating and breathing dust. Avoid contact with skin and eyes.

B. Technical recommendations for the prevention of fires and explosions:
Keep away from heat and open flame. Avoid accumulation of fine dust.

C. Technical recommendations on general occupational hygiene:
Do not eat, drink or smoke while handling. Wash hands thoroughly after use.

D. Technical recommendations to prevent environmental risks:
Avoid release to drains and watercourses. See section 6.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	30°C
Maximum time	24 Months (unopened, original packaging)

B. General conditions for storage:
Store in a cool, dry, well-ventilated place protected from light. Keep containers tightly closed, away from strong oxidizers.

7.3 Specific end use(s):
Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:
No specific occupational exposure limit is established for chloroxylenol in India.

Identification	Occupational Exposure Limit Type	Value
Chloroxylenol (as total dust) CAS: 88-04-0	Time Weighted average concentration (8 hrs)	Typical value – refer to current specification sheet

8.2 Appropriate engineering controls:
Use local exhaust/dust extraction when handling powder, supplemented by PPE.

B. Respiratory protection:
Dust mask with P2 particulate filter where dust is generated.

C. Specific protection for the hands:
Chemical-resistant gloves (nitrile).

D. Eye and face protection:
Chemical safety goggles.

E. Bodily protection:
Protective coveralls recommended for prolonged exposure.

F. Additional emergency measures:
Eyewash station and emergency shower recommended.

Environmental exposure controls:
Avoid environmental release of product and container.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Solid (crystalline powder/flakes)
Appearance	White to off-white crystalline solid
Color	White / off-white
Odor	Faint phenolic/aromatic odor
Odour threshold	Typical value – refer to current specification sheet
Volatility	
Boiling point at atmospheric pressure	~246°C
Vapour pressure at 20°C / 50°C	Low; typical value – refer to current specification sheet
Evaporation rate at 20°C	Not relevant *
Product Description	
Density / Relative density at 20°C	Typical value – refer to current specification sheet
Dynamic / Kinematic viscosity	Non-applicable (solid)
Concentration	≥99% typical (technical grade)
pH	Typical value – refer to current specification sheet (weakly acidic phenolic)
Vapour density at 20°C	Not relevant *
Partition coefficient n-octanol/water 20°C	log Kow ≈ 3.3 (typical)
Solubility in water at 20°C	Slightly soluble, approx. 0.3 g/L
Decomposition temperature	Typical value – refer to current specification sheet
Melting point/freezing point	114 – 116°C
Flammability	
Flash Point	Typical value – refer to current specification sheet
Flammability (solid, gas)	Combustible solid
Autoignition temperature	Typical value – refer to current specification sheet
Lower / Upper flammability limit	Not relevant *
Particle Characteristics	
Median equivalent diameter	Typical value – refer to current specification sheet

* Not relevant due to the nature of the product, not providing information on the properties of its hazards.

9.2 Other information:

Explosive properties	Not relevant *
Oxidising properties	Not an oxidizer; not classified
Corrosive to metals	Not relevant *
Heat of combustion	Typical value – refer to current specification sheet
Surface tension at 20°C	Not relevant *
Refraction index	Not relevant *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Reacts with strong oxidizing agents. Reacts with strong alkalis forming phenolate salts.

10.2 Chemical stability:

Stable under recommended storage conditions. Sensitive to prolonged exposure to light and strong oxidizers.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Avoid prolonged high heat	Avoid prolonged exposure	Avoid prolonged moisture exposure

10.5 Incompatible materials:

Strong Oxidizers	Strong Alkalis	Strong Acids	Combustible Materials	Metals
Avoid contact	Avoid contact	No special precautions	No special precautions	No special precautions

10.6 Hazardous decomposition products:

Hydrogen chloride, carbon monoxide and carbon dioxide on combustion/thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect):

Harmful if swallowed. May cause irritation of the mouth, throat and gastrointestinal tract, nausea and vomiting.

B. Inhalation (acute effect):

Dust may cause irritation of the respiratory tract.

C. Contact with skin and eyes (acute effect):

Causes skin irritation. Causes serious eye damage.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria are not met based on available data.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data; occasional sensitisation reports exist in the literature for repeated/prolonged dermal contact.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Chloroxylenol CAS: 88-04-0	LD50 oral: 3,800 mg/kg	Rat
	LD50 dermal: >2,000 mg/kg	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Chloroxylenol CAS: 88-04-0	LC50: 1.1 mg/L (96h)	Pimephales promelas	Fish
	EC50: 2.0 mg/L (48h)	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Moderately biodegradable under aerobic conditions; not readily biodegradable per standard OECD test criteria in some studies.

12.3 Bioaccumulative potential:

Moderate bioaccumulation potential based on log Kow; not expected to be strongly bioaccumulative.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Typical value – refer to current specification sheet	Not relevant	Low mobility	Low mobility

12.5 Results of PBT and vPvB assessment:

Not identified as a PBT or vPvB substance per current assessment criteria.

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of via a licensed waste handler in accordance with local and national regulations. Do not discharge to drains or watercourses. For packaging: avoid treatments as far as possible – use dedicated containers.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Not assigned – Non-hazardous for transport
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	Yes (Aquatic Chronic 2) – marking per local rules if applicable
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Not assigned – Non-hazardous for transport
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	Not relevant
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Not assigned – Non-hazardous for transport
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Not relevant
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Public Liability Insurance Act, 1991

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H411: Toxic to aquatic life with long lasting effects.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

United Nations GHS (Rev. 8); European Chemicals Agency (ECHA) classification and labelling inventory; publicly available chemical supplier safety data sheets for this CAS number.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET