

## MATERIAL SAFETY DATA SHEET

NFPA	HMIS	Personal Protective Equipment
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Health Hazard	2
Fire Hazard	1
Reactivity	0



See Section 8.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product code:</b>	CH136
<b>Product Name:</b>	CHLOROXYLENOL, USP
<b>Chemical Name:</b>	4-Chloro-3,5-xylenol
<b>Synonyms:</b>	4-Chloro-3,5-dimethylphenol; 2-Chloro-5-hydroxy-1,3-dimethylbenzene; 2-Chloro-5-hydroxy-m-xylene; 2-Chloro-m-xylenol; 4-Chloro-1-hydroxy-3,5-dimethylbenzene; 4-Chloro-3,5-xylenol; p-Chloro-m-xylenol; Benzyltol, Desson; Dettol; Espadol; Ottasept; PCMX
<b>Recommended use:</b>	Antibacterial. Antiseptic. Fungistat. Mildew preventative. Preservative. Active ingredient in deodorants, soaps, skin preparations for dermatological disorders, antiseptics, germicides
<b>CAS #:</b>	88-04-0
<b>RTECS #</b>	ZE6850000
<b>Formula:</b>	C8-H9-Cl-O
<b>CI#:</b>	Not available
<b>Supplier:</b>	Chanjao Longevity Co.,Ltd. 50 Ramindra 14, Bangkhen Bangkok 10230 Thailand +66 02 002 7 002
<b>Order Online At:</b>	<a href="https://www.myskinrecipes.com/shop">https://www.myskinrecipes.com/shop</a>
<b>Emergency Telephone Number:</b>	+66 02 002 7 002

### 2. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

WARNING! IRRITANT

Irritating to skin

Irritating to eyes

May cause allergic skin reaction

**Odor:**  
Phenolic

**Physical state:**  
Solid

**Appearance:**  
Crystals. Crystalline powder

**Color:**  
White. Off-white

### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### POTENTIAL HEALTH EFFECTS

#### Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

#### Acute Potential Health Effects:

##### Skin Contact:

Contact causes skin irritation. May cause allergic skin reaction.

##### Eye Contact:

Causes serious eye irritation. May cause corneal opacity.

##### Inhalation:

May cause irritation of respiratory tract.

##### Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May affect the cardiovascular system. It may affect the urinary system. May affect respiration.

#### Chronic Potential Health Effects:

##### Component

Chloroxylenol  
88-04-0 (100)

##### Carcinogen Status:

No information available

#### Target Organs:

Eyes. Skin.

#### Mutagenic Effects:

Experiments with bacteria have shown mutagenic effects

#### Teratogenic Effects:

No information available

**Aggravated Medical Conditions:** No information available

See Section 11 for additional Toxicological Information

### POTENTIAL ENVIRONMENTAL EFFECTS

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Chloroxylenol	88-04-0	100

### 4. FIRST AID MEASURES

<b>General Advice:</b>	Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Flush eye with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.
<b>Notes to Physician:</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties

<b>Flashpoint (°C/°F):</b>	132 °C (269.6 °F)
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<b>Flash Point Tested according to:</b> Not available
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<b>Lower Explosion Limit (%):</b>	No information available
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<b>Upper Explosion Limit (%):</b>	No information available
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<b>Autoignition Temperature (°C/°F):</b>	No information available
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<b>Suitable Extinguishing Media:</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray mist or foam.
<b>Unsuitable Extinguishing Media:</b>	No information available.
<b>Hazardous Combustion Products:</b>	Carbon monoxide, Carbon dioxide, hydrogen chloride gas
<b>Specific hazards:</b>	May be combustible at high temperatures.
<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific Methods:</b>	No information available.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental Precautions:**

No information available.

**Methods for Cleaning Up:**

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE****Handling****Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

**Storage****Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents. Bases.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protective Equipment**

**Eye protection:** Goggles.

**Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.

**Respiratory protection:** Effective dust mask. Wear respirator with dust filter..

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

**National occupational exposure limits****United States**

U.S Occupational Exposure Limits: Not determined

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Chloroxylenol - 88-04-0	None	None	None	None

## Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
Chloroxylenol 88-04-0	None	None	None	None

## Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
Chloroxylenol 88-04-0	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical state:

Solid

### Appearance:

Crystals. Crystalline powder

### Color:

White. Off-white

### Odor:

Phenolic

### Taste

No information available

### Molecular/Formula weight:

156.61

### Flash point (°C):

132

### Lower Explosion Limit (%):

No information available

### Upper Explosion Limit (%):

No information available

### Autoignition Temperature (°C/°F):

No information available

### Melting point/range(°C/°F):

113-116 °C/235.4-240.8 °F

### Boiling point/range(°C/°F):

246 °C/474.8 °F

### pH:

No information available

### Specific gravity:

No information available

### Density (g/cm<sup>3</sup>):

0.89 @ 20 C

### Decomposition temperature(°C/°F):

No information available

### Bulk density:

No information available

### Vapor pressure @ 20°C (kPa):

No information available

### Evaporation rate:

No information available

### Vapor density:

No information available

### VOC content (g/L):

No information available

### Odor threshold (ppm):

No information available

### Partition coefficient

(n-octanol/water):

3.27

### Miscibility:

No information available

### Solubility:

Slightly soluble in water

Solubility in Water: 0.25 g/100 mL at 20 deg. C

Soluble in Acetone, Ether, Isopropanol, Chloroform, Ethanol

Slightly soluble in Petroleum Ether

Partially soluble in Benzene, Toluene, Chloroform

At 15 deg. C, in petroleum ether, benzene, acetone, toluene chloroform, isopropanol, the solubility is 0.5, 6.0, 58.0, 7.0, 6.2, and 38 g/100 mL, respectively

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions
<b>Conditions to avoid:</b>	Heat. Ignition sources. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
<b>Incompatible Materials:</b>	Oxidizing agents. Bases.
<b>Hazardous decomposition products:</b>	Carbon monoxide. Carbon dioxide. Hydrogen chloride gas.
<b>Possibility of Hazardous Reactions:</b>	No information available
<b>Polymerization:</b>	Hazardous polymerisation does not occur.
<b>Corrosivity:</b>	No information available
<b>Special Remarks on Corrosivity:</b>	No information available

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

*Chloroxyleneol - 88-04-0*

**LD50/oral/rat** = 3830 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 1000 mg/kg

**LD50/dermal/rat** = >2000 mg/kg

**LD50/dermal/rabbit** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

#### Product Information

**LC50/inhalation/rat** No information available

**LC50/Inhalation/mouse** No information available

**LD50/dermal/rabbit** No information available

**LD50/dermal/rat** >2000mg/kg

**LD50/oral/mouse** = 1000mg/kg

**LD50/oral/rat** = 3830mg/kg

#### Local Effects

**Skin irritation:** Causes skin irritation. May cause allergic skin reaction.

**Eye irritation:** Causes serious eye irritation. May cause corneal opacity.

**Inhalation:** May cause irritation of respiratory tract.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May affect respiration (respiratory stimulation), urinary system, cardiovascular system (lowering of blood pressure), and behavior/central nervous system (ataxia).

**Sensitization:** May cause sensitization by skin contact

**Chronic Toxicity**

**Chronic Toxicity** No information available

**Carcinogenic effects:** Not considered carcinogenic

Components	NTP	IARC	OSHA HCS - Carcinogens	ACGIH - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Chloroxylenol	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:** Experiments with bacteria have shown mutagenic effects

**Reproductive Effects:** May cause adverse developmental effects based on animal data  
No information on developmental toxicity effects on humans was found  
There no controlled studies on developmental effects of Chloroxylenol. Also, there is limited data on developmental effects of Chloroxylenol on animals  
No information on reproductive toxicity effects on humans was found

**Teratogenic Effects:** No information available

**Target Organs:** Eyes. Skin.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY**

**Toxicity to terrestrial and aquatic plants and animals:** Information given is based on data on the components and the ecotoxicology of similar products

**Ecotoxicity effects:**

**Aquatic toxicity:**

*Chloroxylenol - 88-04-0*

**Freshwater Fish Species Data:** 0.13 - 1.0 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1  
1.3 - 2.1 mg/L LC50 *Lepomis macrochirus* 96 h static 1

**Water Flea Data:** 6.7 - 9 mg/L EC50 *Daphnia magna* 48 h

**Mobility:** No information available

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Chloroxylenol	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** None  
**Subsidiary Risk:** Not applicable  
**Marine Pollutant:** No data available  
**ERG No:** No information available  
**DOT RQ (lbs):** No information available  
**Transport Regulation Logo:**

### TDG (Canada)

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

### ADR

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available



**ICAO**

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

**IATA**

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

**15. REGULATORY INFORMATION****International Inventories**

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Chloroxylenol</i>	Present	Present	Present KE-05943	Present (9)-1650 (3)-936 (3)-727 (3)-542	Present	Present	Present 201-793-8

**U.S. Regulations****California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.****Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Chloroxylenol</i>	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
<i>Chloroxylenol</i>	None	None	None	None	None

**U.S. TSCA**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Chloroxylenol</i>	Not Applicable	04/13/1989 12/19/1995

**Canada**

**WHMIS hazard class:**  
D2B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Chloroxylenol	Present	Not listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Chloroxylenol	Not listed	Not listed

**EU Classification**

**R-phrase(s)**

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

R36/38 - Irritating to eyes and skin.

**S -phrase(s)**

S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

Components	Classification	Concentration Limits:	Safety Phrases
Chloroxylenol	R43 Xi;R36/38 Xn;R22	No information	S(2)-S24-S37

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Contains:** Chloroxylenol

**Indication of danger:**

Xi - Irritant.

Xn - Harmful.



**16. OTHER INFORMATION**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. We assume no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, we assume no responsibility for the completeness or accuracy of the information contained herein.