



*Specialized in chemicals*

Hefei TNJ Chemical Industry Co.,Ltd.

B910-911 Xincheng Business Center,

Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

## Material Safety Data Sheet

### 4-Chloro-3,5-dimethylphenol

#### Section 1: Chemical Product and Company Identification

**Molecular formula:** C<sub>8</sub>H<sub>9</sub>ClO

**CAS Nr:** 88-04-0

**Molecular weight:** 156.61

**Synonyms:** PCMX

**Contact Information for Emergency:** (0086) 551 65418678

**Hefei TNJ Chemical Industry Co.,Ltd.**

B910-911 Xincheng Business Center

Qianshan Road, Hefei

230004Anhui

China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	%By Weight
4-Chloro-3,5-dimethylphenol	88-04-0	99

### Section 3: Hazards Identification

**EMERGENCY OVERVIEW:**

**Signal Word:** Warning.

**OSHA Regulations:** Not hazardous substance.

**Target Organ Effect:** Causing moderate irritation with eyes and skin and may cause an allergic reaction in certain individuals.

**Potential Health Effects:**

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. **Inhalation:**

Causing irritation of mucous membrane and upper respiratory tract.

**Chronic:** Animal studies have reported that fetal effects/abnormalities may occur when maternal toxicity is seen.

Laboratory experiments have resulted in mutagenic effects.

**Primary Route(s) of Entry:** Ingestion, Inhalation, Eyes and Skin.

### Section 4: First Aid Measures

**YE:** If eyes contacted, rinse immediately with plenty of water and seek medical advice.

**SKIN:** Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs.

**INHALATION:** Remove to fresh air; in case of not breathing, give artificial respiration; if breathing is difficult, give oxygen and get immediate medical attention.

**INGESTION:** Do not induce vomiting. If vomiting occurs naturally, have casually lean forward to reduce the risk of aspiration. Seek medical immediately.

### Section 5: Fire and Explosion Data

**Fire Fighting Measures:** Standard procedure for chemical fires.

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, foam or water mist.

**Fire Fighting Equipment:** Wear self-contained breathing apparatus and protective suit.

**Hazardous Combustion:** Burning may produce irritating and highly toxic gases by thermal decomposition or combustion.

**Flash Point:** 132 deg C ( 269.60 deg F).

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

### Section 6: Accidental Release Measures

**Cleanup Instructions:** Vacuum or sweep up material and place into a suitable disposal container. Should not be released into the environment. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

### Section 7: Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Keep container tightly closed when not in use.

**Storage:** Store in a tightly closed container in a cool, dry, well-ventilated area away from heat, sparks and flame. Avoid ingestion and inhalation.

## Section 8: Exposure Controls/Personal Protection

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Skin:** Wear chemical resistant gloves and protective clothing to prevent skin exposure.

**Respiratory Protection:** Use NIOSH approved respirator as needed to mitigate exposure in workplace.

**Engineering Controls:** Work in well-ventilated areas to keep airborne concentrations low. Do not breathe dust.

## Section 9: Physical and Chemical Properties

<b>Physical State</b>	Crystalline powder
<b>Appearance</b>	White to off-white
<b>Odor</b>	Phenol-like
<b>PH</b>	6.1
<b>Vapor Pressure</b>	0.23 (Pa @25°C)
<b>Vapor Density</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Viscosity</b>	Not available
<b>Boiling Point</b>	246 deg C @ 760 mm Hg
<b>Freezing/Melting Point</b>	113-116 deg C
<b>Decomposition Temperature</b>	Not available
<b>Solubility</b>	Slightly soluble
<b>Specific Gravity/Density</b>	Not applicable
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>9</sub> ClO
<b>Molecular Weight</b>	156.61

## Section 10: Stability and Reactivity Data

**Chemical Stability:** Stable at room temperature in closed containers under normal storage, use, handling and transportation conditions.

**Conditions to Avoid:** Incompatible materials, ignition sources, dust generation and accumulation, excess heat, strong oxidants.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

<b>Section 11: Toxicological Information</b>	
<b>Acute Oral Toxicity:</b>	LD50>3830 mg/Kg (albino rat)
<b>Acute Injection Toxicity:</b>	LD50>2000 mg/Kg(albino rat)
<b>Acute Inhalation Toxicity:</b>	LC50>988 mg/L (aerosol, rat)
<b>Skin Irritation:</b>	LD50>1000 mg/Kg (Rabbit)
<b>Skin Sensitization:</b>	not a dermal sensitizer (human)
<b>Carcinogenicity:</b> Not listed by ACGIH, IARC, NTP, or CA Prop 65.	
<b>Teratogenicity:</b> Oral, rat: TDLo = 17100 mg/kg (female 1-19 day(s) after conception) Effects on Embryo or Fetus – fetotoxicity (except death, e.g., stunted fetus) and Specific Developmental Abnormalities - musculoskeletal system.	
<b>Mutagenicity:</b> Mutation Test Systems - not otherwise specified: Escherichia coli = 100 umol/L.	
<b>Reproductive Effects:</b>	Not available
<b>Neurotoxicity:</b>	Not available
<b>Chronic Toxicity:</b>	Not available
<b>Excretion/metabolism:</b>	Not available

<b>Section 12: Ecological Information</b>	
<b>Ecotoxicity:</b>	
Fish: Rainbow trout: LC50 = 0.77 mg/L; 96 Hr;	
Fish: Bluegill/Sunfish: LC50 =2.7 mg/L; 96 Hr;	
Water Flea Daphnia: EC50 =4.5-7.7 mg/L; 48 Hr; Static bioassay	
Algae: EC50 =31 mg/L; (S. subspicatus)	
Biochemical Oxygen Demand (BOD): Not determined	
Chemical Oxygen Demand (COD):	Not available
Total Oxygen Demand (TOD):	Not available
Biodegradability:	Not readily biodegradable
Bioaccumulation:	Not available

<b>Section 13: Disposal Considerations</b>	
US EPA guidelines list whether a discarded chemical is classified as a hazardous waste.in 40 CFR Parts 261.3.	
Additionally, waste generators must dispose according to Local, State, Provincial and Federal regulations.	
<b>RCRA P-Series:</b>	None listed.
<b>RCRA U-Series:</b>	None listed.

<b>Section 14: Transport Information</b>	
<b>U.S. Department of Transportation (DOT):</b> Non-Hazardous for Transport	

<b>Section 15: Other Regulatory Information</b>	
OSHA Regulations:	Not hazardous
Clean Air Act-Volatile Organic Compounds (VOC):	Not listed
Clean Air Act-Ozone Depleting Substances (ODS):	Not listed
Clean Water Act-Priority Pollutants (PP):	Not listed
Resource Conservation and Recovery Act (RCRA):	Not a hazardous waste
SARA:	Not Listed
TSCA Inventory Item:	YES
FDA Status: Regulated by FDA as an Active Pharmaceutical Ingredient (API).	
State Regulations	
California Proposition 65:	Not listed
Pennsylvania Right-To-Know List of hazardous chemicals:	NO
<b>Hazard Symbols:</b>	XN
<b>Risk Phrases:</b>	
R 22 Harmful if swallowed.	
R 36/38 Irritating to eyes and skin.	
R 43 May cause sensitization by skin contact.	
<b>Safety Phrases:</b>	
S 24 Avoid contact with skin.	
S 37 Wear suitable gloves.	
<b>Canada – WHMIS:</b>	
Having a WHMIS classification of D2B;	
Having been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.	
<b>International Regulation</b>	
Chemical Weapons Convention (CWC):	Not listed
Domestic Substance List (DSL) status:	YES
<b>Worldwide Registration for:</b> Number of countries where this chemical is:	
Banned, Restricted or Cancelled:	NO
Not legal for import:	

<b>Section 16: Other Information</b>
<b>References:</b> Not available.
<b>Other Special Considerations:</b> Not available.
<b>Created:</b> 10/10/2005 12:10 AM
<b>Last Updated:</b> 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and

*we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*