



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

D1508 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: [info@tnjchem.com](mailto:info@tnjchem.com)

Site: [www.tnjchem.com](http://www.tnjchem.com)

## Material Safety Data Sheet

### 2,4-Dichloro-3,5-Xylenol DCMX MSDS

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

**Molecular formula:** C<sub>8</sub>H<sub>8</sub>Cl<sub>2</sub>O

**CAS Nr:** 133-53-9

**Molecular weight:** 191.0545

**Synonyms:** DCMX

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

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

D1508 Xincheng Business Center

Qianshan Road, Hefei

230004Anhui

China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

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

**Composition:**

| Name                            | CAS #    | %By Weight |
|---------------------------------|----------|------------|
| 2,4-Dichloro-3,5-dimethylphenol | 133-53-9 | 100        |

#### 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 casualty 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.

**Melting Point:** 91-96 deg C

**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.

| <b>Section 8: Exposure Controls/Personal Protection</b> |   |
|---|---|
| <b>Personal Protective Equipment</b>                    |   |
| <b>Eyes:</b>  | Wear appropriate protective eyeglasses or chemical safety goggles.                      |
| <b>Skin:</b>  | Wear chemical resistant gloves and protective clothing to prevent skin exposure.        |
| <b>Respiratory Protection:</b>                          | Use NIOSH approved respirator as needed to mitigate exposure in workplace.              |
| <b>Engineering Controls:</b>                            | Work in well-ventilated areas to keep airborne concentrations low. Do not breathe dust. |

| <b>Section 9: Physical and Chemical Properties</b> |   |
|--|---|
| <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>                              | Not available                                   |
| <b>Vapor Density</b>                               | Not available                                   |
| <b>Evaporation Rate</b>                            | Not available                                   |
| <b>Viscosity</b>                                   | Not available                                   |
| <b>Boiling Point</b>                               | Not available                                   |
| <b>Freezing/Melting Point</b>                      | Not available                                   |
| <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>8</sub> Cl <sub>2</sub> O |
| <b>Molecular Weight</b>                            | 191.0545  |

| <b>Section 10: Stability and Reactivity Data</b> |  |
|--|--|
| <b>Chemical Stability:</b>                       | Stable at room temperature in closed containers under normal storage, use, handling and transportation conditions. |
| <b>Conditions to Avoid:</b>                      | Incompatible materials, ignition sources, dust generation and accumulation, excess heat, strong oxidants.          |
| <b>Incompatibilities with Other Materials:</b>   | Strong oxidizing agents, strong bases.   |
| <b>Hazardous Decomposition Products:</b>         | Hydrogen chloride, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.                          |
| <b>Hazardous Polymerization:</b>                 | 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<br>(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>IATA</b>                              |  |
| Shipping Name: Not regulated.            |  |
| Hazard Class:                            |  |

|  |                |
|--|----------------|
| UN Number:   |                |
| Packing Group:                                       |                |
| <b>IMO</b>   |                |
| Shipping Name:                                       | Not regulated. |
| Hazard Class:  |                |
| UN Number:   |                |
| Packing Group:                                       |                |
| <b>RID/AD Not regulated as a hazardous material.</b> |                |

**Section 15: Other Regulatory Information**

|  |                       |
|--|-----------------------|
| 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:  |                       |

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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