



Specialized in chemicals

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Material Safety Data Sheet

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

Section 1: Chemical Product and Company Identification

Molecular formula: C₈H₈Cl₂O

CAS Nr: 133-53-9

Molecular weight: 191.0545

Synonyms: DCMX

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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 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.

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.

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

Physical State	Crystalline powder
Appearance	White to off-white
Odor	Phenol-like
PH	6.1
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Viscosity	Not available
Boiling Point	Not available
Freezing/Melting Point	Not available
Decomposition Temperature	Not available
Solubility	Slightly soluble
Specific Gravity/Density	Not applicable
Molecular Formula	C ₈ H ₈ Cl ₂ O
Molecular Weight	191.0545

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.

Section 11: Toxicological Information

Acute Oral Toxicity:	LD50>3830 mg/Kg (albino rat)
Acute Injection Toxicity:	LD50>2000 mg/Kg(albino rat)
Acute Inhalation Toxicity:	LC50>988 mg/L (aerosol, rat)
Skin Irritation:	LD50>1000 mg/Kg (Rabbit)
Skin Sensitization:	not a dermal sensitizer (human)
Carcinogenicity:	Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Teratogenicity:	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.
Mutagenicity:	Mutation Test Systems - not otherwise specified: Escherichia coli = 100 umol/L.
Reproductive Effects:	Not available
Neurotoxicity:	Not available
Chronic Toxicity:	Not available
Excretion/metabolism:	Not available

Section 12: Ecological Information**Ecotoxicity:**

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

Section 13: Disposal Considerations

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.

RCRA P-Series:	None listed.
RCRA U-Series:	None listed.

Section 14: Transport Information**IATA**

Shipping Name: Not regulated.
 Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/AD Not regulated as a hazardous material.

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).	

Sate Regulations

California Proposition 65:	Not listed
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Pennsylvania Right-To-Know List of hazardous chemicals:	NO
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Hazard Symbols:	XN
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Risk Phrases:

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

Canada – WHMIS:

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.

International Regulation

Chemical Weapons Convention (CWC):	Not listed
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Domestic Substance List (DSL) status:	YES
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Worldwide Registration for: Number of countries where this chemical is:

Banned, Restricted or Cancelled:	NO
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Not legal for import:

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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