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Material Safety Data Sheet

Chloroxylenol MSDS

Section 1: Chemical Product and Company Identification

Product Name: Chloroxylenol

Catalog Codes: SLC5383

CAS#: 88-04-0

RTECS: ZE6850000

TSCA: TSCA 8(b) inventory: Chloroxylenol

CI#: Not available.

Synonym: Benzytol, Desson, Dettol, Espadol, Ottasept, PCMX; 4-Chloro-3,5-dimethylphenol; 2-Chloro-5-hydroxy-1,3-dimethylbenzene; 2-Chloro-5-hydroxy-mxylene; 2-Chloro-m-xyleneol; 4-Chloro-1-hydroxy-3,5-dimethylbenzene; 4-Chloro-3,5-xyleneol; p-Chloro-m-xyleneol

Chemical Name: 4-Chloro-3,5-Xyleneol

Chemical Formula: C₈H₉ClO

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Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS # | %By Weight |
|---------------|---------|------------|
| Chloroxylenol | 88-04-0 | 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.

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

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

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 | |
|--|---|
| DOT (US) | This substance is considered to be non-hazardous for transport. |
| IMDG | This substance is considered to be non-hazardous for transport. |
| IATA | This substance is considered to be non-hazardous for transport. |

| 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 |
| Pennsylvania Right-To-Know List of hazardous chemicals: | NO |
| Hazard Symbols: | XN |
| 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 |
| Domestic Substance List (DSL) status: | YES |
| Worldwide Registration for: Number of countries where this chemical is: | |
| Banned, Restricted or Cancelled: | NO |
| Not legal for import: | |

| Section 16: Other Information |
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References: Not available.

Other Special Considerations: Not available.

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