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Columbus Chemical Industries, Inc./ Route 2, Box 187-B/ Columbus, Wisconsin 53925 / 414-623-2140

MATERIAL SAFETY DATA SHEET

Date: April, 1986

Edition: Fifth

Chemical Name and Synonyms:

Para-dichlorobenzene, 1,4-dichlorobenzene
CAS No. 106-46-7

Trade Name and Synonyms:

Para-dichlorobenzene; Para; PDCB

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Chemical Family: Aromatic Chlorohydrocarbon

Formula: $C_6H_4Cl_2$

DOT Shipping Name:

See Comments, Page 2

DOT Hazard Class:

See Comments, Page 2

Reportable Quantity: See Comments, Page 2
I. D. Number: See Comments, Page 2

Subsidiary Risk: N/A

SECTION 1 • PHYSICAL DATA

Boiling Point @ 760 mm Hg: 174°C	Vapor Density (Air=1): 5.07	Specific Gravity ($H_2O=1$): 1.248 @ 55°C	pH of Solutions: Neutral
Freezing/Melting Point: 53°C	Solubility (Weight % in Water): 77 ppm @ 30°C	Bulk Density: 10 lbs/gallon (liquid @ 55°C)	Volume % Volatile: 100
Vapor Pressure: @ 25°C = 1.027mmHg	Evaporation Rate (_____ = 1): Not Available	Heat of Solution: Not Applicable	Appearance and Odor: White crystal- line solid or clear liquid with with penetrating aromatic odor.

SECTION 2 • HAZARDOUS INGREDIENTS

	%
Para-dichlorobenzene	99.9

SECTION 3 • FIRE AND EXPLOSION HAZARD DATA

Flash Point °F (Method Used) 148°F (Tag Closed Cup)	Flammable Limits in Air (% by Volume) LEL: _____ UEL: _____ Unknown	Extinguishing Media: Carbon dioxide, dry chemical
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Special Fire Fighting Procedures: Fire fighters must wear NIOSH/MSHA-approved, self-contained pressure-demand breathing apparatus.

Unusual Fire and Explosion Hazards: Burns to form toxic, corrosive hydrogen chloride and possible traces of phosgene.

SECTION 4 • HEALTH HAZARD DATA

Toxicity Data	Classification (Poison, Irritant, Etc.)
LC ₅₀ Inhalation Not Determined	Inhalation: Toxic (See Section 5)
LD ₅₀ Dermal No evidence that solid is absorbed through skin.	Skin: See Section 5
Skin/Eye Irritation See Section 5	Skin/Eye: Slightly Irritating
LD ₅₀ Ingestion (rats) 500 mg/kg	Ingestion: Moderately Toxic
Fish, LC ₅₀ (Lethal Concentration) TLm96: 10- <1 ppm	Aquatic: Toxic

24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Eye or Skin Contact: For eye contact, flush thoroughly with plenty of water, and call a physician. For skin contact, flush thoroughly with soap and water. If irritation or discomfort occurs, consult a physician.

Ingestion: If conscious, drink large quantities of water. DO NOT induce vomiting. Take immediately to a hospital or physician. If unconscious, or in convulsions, take immediately to a hospital. DO NOT attempt to induce vomiting or give anything by mouth to an unconscious person.

Notes to Physician (Includes Antidotes) Administration of adrenalin may be contraindicated for overexposures to para-dichlorobenzene.

SECTION 6 • REACTIVITY DATA

Stability: Stable	Conditions to Avoid: Open flames, hot glowing surfaces or electric arcs
Hazardous Polymerization: Will not occur	Conditions to Avoid: None
Incompatibility (Materials to Avoid): None	

Hazardous Decomposition Products: Hydrogen chloride and possible traces of phosgene

SECTION 7 • SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released: Remove unprotected personnel from area of spill, provide maximum ventilation and remove all ignition sources. Only personnel equipped with NIOSH/MSHA-approved, self-contained breathing apparatus or full facepiece airline respirators with auxiliary SCBAs operated in the pressure-demand mode and eye/skin protection should be permitted in area. Carefully shovel or sweep up spilled material and place into closed containers. Maintain ventilation until all vapors have been eliminated. Then thoroughly flush area of spill with water.

Waste Disposal Method:

PPG recommends material to be recovered and/or reprocessed. Otherwise, it must be disposed of by burning in an approved incinerator or disposal in an approved hazardous waste management facility. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

RCRA - Hazardous Waste Number U-072
Clean Water Act - RQ - 100 Pounds

SECTION 8 • SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH/MSHA-approved organic vapor cartridge or canister respirator for routine work purposes when air concentrations exceed the permissible exposure limits. If dust is present, use a particulate prefilter. See Section 7 for respiratory protection during spills or leaks. The respirator use limitations made by NIOSH/MSHA or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29CFR 1910.134.

Ventilation (Type): Local exhaust ventilation sufficient to maintain workplace concentration below permissible exposure limits.

Eye Protection: Chemical Safety Goggles

Gloves: Viton®. For limited service only:
Polyvinyl alcohol*, Nitrile.
*(degrades in water)

Other Protective Equipment: Impervious boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29CFR 1910.133 and 29CFR 1910.132.

SECTION 9 • SPECIAL PRECAUTIONS

Precautions to be Taken During Handling and Storing:

- Store in a cool place but not below 32°F.
- Keep containers tightly closed when not in use.
- Store only in closed, properly labeled containers.
- Do not use in confined or poorly ventilated areas.
- Para-dichlorobenzene vapors are heavier than air and will collect in low areas.
- This material or its vapors when in contact with flames, hot glowing surfaces or electric arcs, can decompose to form hydrogen chloride gas and possible traces of phosgene.
- Do not contaminate water, food, or feed by storage or disposal.
- This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.
- **AVOID CONTAMINATION OF WATER SUPPLIES:** Handling, storage, and use procedures must be carefully monitored to avoid spills or leaks. Any spill or leak has the potential to cause underground water contamination which may, if sufficiently severe, render a drinking water source unfit for human consumption. Contamination that does occur cannot be easily corrected.
- Completely empty drum by shaking and tapping sides and bottom to loosen clinging particles. Drum reuse is limited to the same class of pesticide or to nonpesticide products, providing reuse is in compliance with all applicable government regulations. Empty drum may be disposed of in a sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

Other Precautions:

- Liquid material is shipped hot (155° - 188°F). Avoid skin contact--can cause thermal burns.
- Do not breathe vapors.
- Use only with ventilation sufficient to keep employee exposure below permissible exposure limits (see section 5).
- Avoid contact with eyes or skin.
- Do not swallow.
- Keep out of reach of children.
- Do not eat, drink, or smoke in work areas.