

MSDS # 510.00

p-DichlorobenzeneScholar
Chemistry**Section 1: Product and Company Identification****p-Dichlorobenzene****Synonyms/General Names:** 1,4-Dichlorobenzene, Moth Crystals.**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.**24 Hour Emergency Information Telephone Numbers****CHEMTREC (USA): 800-424-9300****CANUTEC (Canada): 613-424-6666**

Scholar Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification*White, crystalline powder.***HMIS (0 to 4)****WARNING!** Moderately toxic by inhalation and ingestion. Severe inhalation hazard, severe body tissue irritant, and possible carcinogen
Target organs: Liver, respiratory system.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

p-Dichlorobenzene (106-46-7), >99%

Section 4: First Aid Measures*Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.**Section 5: Fire Fighting Measures**

When heated to decomposition, emits acrid fumes.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.

**Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7: Handling and Storage**Blue****Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.**Storage:** Store in Toxic Storage Area [Blue Storage] with other toxic material. Store in a dedicated poison cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.**Section 8: Exposure Controls / Personal Protection**Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an organic cartridge. Exposure guidelines: p-Dichlorobenzene: OSHA PEL: 450 mg/m³, ACGIH: TLV: 60 mg/m³, STEL: N/A.

Section 9: Physical and Chemical Properties

Molecular formula	C ₆ H ₄ Cl ₂	Appearance	White crystals.
Molecular weight	147.00.	Odor	Moth balls.
Specific Gravity	1.24 g/mL (@ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	N/A.	Solubility	Soluble in water, organic solvents.
Melting Point	52-56°C.	Evaporation rate	N/A. (Butyl acetate = 1).
Boiling Point/Range	174 °C.	Partition Coefficient	N/A. (log P _{ow}).
Vapor Pressure (20°C)	N/A.	pH	N/A.
Flash Point:	N/A.	LEL	N/A.
Autoignition Temp.:	N/A.	UEL	N/A.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Stability: Stable under normal conditions of use and storage. Avoid heat and ignition sources.

Incompatibility: Strong oxidizers

Shelf life: Indefinite shelf life, store in a cool, dry environment.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: *Eyes:* Redness, tearing, itching, burning, conjunctivitis. *Skin:* Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. **Inhalation:** Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: Carcinogen, IARC 2B, NTP reasonably anticipated, ACGIH A3

Sensitization: none expected

p-Dichlorobenzene: LD50 [oral, rat]; 500 mg/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material has been found to be a carcinogen [IARC, group 2B] and produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Toxic to terrestrial and aquatic plants and animals. Do not release to environment.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14: Transport Information

DOT Shipping Name:	Toxic solids, organic, n.o.s., (1,4-Dichlorobenzene).	Canada TDG:	Toxic solids, organic, n.o.s., (1,4-Dichlorobenzene).
DOT Hazard Class:	6.1, pg III, Marine pollutant.	Hazard Class:	6.1, pg III, Marine pollutant.
Identification Number:	UN2811.	UN Number:	UN2811.

Section 15: Regulatory Information

EINECS: Listed (203-400-5).

WHMIS Canada: B3, D2A: Combustible, Very toxic material.

TSCA: All components are listed or are exempt.

California Proposition 65: Listed as carcinogen.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: January 23, 2009

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