

MATERIAL SAFETY DATA SHEET

p-DICHLOROBENZENE, CRYSTAL
CAROLINA BIOLOGICAL

Revised: 06/16/09
Replaces: 05/15/08
Printed: 06/30/09

1. PRODUCT DESCRIPTION

Product Name: p-Dichlorobenzene, Crystal
Product Code(s): 85-7809, 85-7811, 85-7813, 85-7815
Size: 1 lb., 5 lb., 10 lb., 25 lb.,
Chemical Name: p-Dichlorobenzene
CAS Number: 106-46-7
Formula: C₆H₄Cl₂
Synonyms: 1,4-Dichlorobenzene;Paracide;PDB;Paramoth
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: p-Dichlorobenzene(CAS#106-46-7) 100%
TLV and PEL units: ACGIH-TLV 10 ppm TWA, 60 mg/m³ TWA
OSHA-PEL: 75 ppm TWA, 450 mg/m³ TWA

3. HAZARD IDENTIFICATION

Emergency Overview: Harmful if ingested. Vapors may cause irritation to skin, throat, and eyes. Prolonged exposure to high concentrations may cause weakness, dizziness, loss of weight; liver injury may develop. May cause damage to central nervous system, kidneys and liver. Can cause unconsciousness and even death in confined or poorly ventilated areas. Cardiac sensitization, leading to ventricular fibrillation, may occur in some individuals. Dangerous, can react vigorously with oxidizing materials.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): 66 °C (CC)

NFPA Rating: Health: 2

Fire: 2

Reactivity: 0

Extinguisher Media:

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Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: No data available
Autoignition Temperature: No data available
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Vapor can travel distances to ignition sources and flash back. When heated to decomposition it emits toxic fume of Cl.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Store in a cool, well-ventilated area away from ignition sources and oxidizers. Do not breathe dust or vapor. Do not get in eyes, on skin, or on clothing. Electrically ground all equipment when handling this product. Retained residue may make empty containers hazardous; use caution!

Other Precautions: Wash thoroughly after handling. Do not take internally.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred
Mechanical(General): Acceptable
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 147.01

Melting Point: 53 °C

Boiling Point: 174 °C

Vapor Pressure: 10 mmHg at 54.8 °C

Vapor Density(Air=1): 5.08

Specific Gravity(H2O=1): 1.25 at 20 °C

Percent Volatile by Volume: 100%

Evaporation Rate(H2O=1): No data available

Solubility in Water: Insoluble

Appearance and Odor: White, volatile, crystals with a characteristic penetrating odor.

10. REACTIVITY DATA

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Stability: Stable
Conditions to Avoid: Heat, flame, sparks
Incompatibility(Materials to Avoid): Acids, bases, oxidizers.
Hazardous Decomposition Products: COx various hydrocarbons, phosgene, HCl.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: orl-hmn TDLo: 300 mg/kg;
 orl-rat LD50: 500 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Mutation data cited. Reproductive effects data cited.

 Listed as causing cancer by NTP, IARC.

Conditions Aggravated by Overexposure: Kidney and liver conditions

Target Organs: Liver, kidneys.

Primary Route(s) of Entry: Inhalation, ingestion

12. ECOLOGICAL DATA

EPA Waste Numbers: U072, D027

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(PARA-DICHLOROBENZENE), 9, UN3077, III, 5 kg

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute, Chronic, Fire

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		List	Category		

p-Dichlorobenzene Crystal	No	Yes	No	100	U072
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16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

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DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act