

# Safety Data Sheet

## p-Dichlorobenzene

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** p-Dichlorobenzene  
**Recommended Use:** Science education applications  
**Synonyms:** para-Dichlorobenzene, 1,4-Dichlorobenzene  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

#### WARNING



Harmful if swallowed. Causes serious eye irritation. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### GHS Classification:

Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1, Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2, Acute Toxicity - Oral Category 4, Acute Toxicity - Dermal Category 5

#### Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.  
May cause damage to kidneys, liver, & blood.  
May cause eye irritation.

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
p-Dichlorobenzene	106-46-7	100

### Section 4 First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Hydrogen chloride, Toxic gases

### Section 6 Spill or Leak Procedures

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## Steps to Take in Case Material Is Released or Spilled:

Avoid the generation of dusts during clean-up. Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Collect spillage.

## Section 7 Handling and Storage

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe dust. Do not ingest or take internally. Keep container tightly closed in a cool, well-ventilated place.

**Storage:** Store locked up. Store in a secure area suitable for toxic material.

**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
p-Dichlorobenzene	10 ppm TWA	N/A	75 ppm TWA; 450 mg/m <sup>3</sup> TWA	N/A

### Control Parameters

#### Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

#### Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves:

Nitrile

## Section 9 Physical Data

**Formula:** C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
**Molecular Weight:** 147  
**Appearance:** Powder  
**Odor:** Moderate Characteristic  
**Odor Threshold:** 0.121 ppm OT (Punter); 0.73 mg/m<sup>3</sup> OT (Punter)  
**pH:** No data available  
**Melting Point:** 53 C  
**Boiling Point:** 174 C  
**Flash Point:** 66 C  
**Flammable Limits in Air:** n/a n/a

**Vapor Pressure:** 1.7 hPa at 20 °C  
**Evaporation Rate (BuAc=1):** <1  
**Vapor Density (Air=1):** 5.1  
**Specific Gravity:** 1.458  
**Solubility in Water:** Practically Insoluble

**Log Pow (calculated):** 3.4  
**Autoignition Temperature:** Estimated > 500 C  
**Decomposition Temperature:** No data available  
**Viscosity:** No data available  
**Percent Volatile by Volume:** 100

## Section 10 Reactivity Data

**Reactivity:** No data available  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Hazardous Decomposition Products:** Toxic gases, Hydrogen chloride, Carbon dioxide, Carbon monoxide  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry** Inhalation and ingestion.

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**Symptoms (Acute):** Liver disorders, Impaired Kidney Function, Central Nervous System Disorders  
**Delayed Effects:** No data available

## Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
p-Dichlorobenzene	106-46-7	Oral LD50 Rat = 500 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Not determined

## Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
p-Dichlorobenzene	106-46-7	Listed	Listed	Listed

## Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).  
**Sensitization:** No evidence of a sensitization effect.  
**Reproductive:** No evidence of negative reproductive effects.

## Target Organ Effects:

**Acute:** See Section 2  
**Chronic:** Liver disorders, Certain components or species of this product are considered potential carcinogens.

## Section 12

### Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

Chemical Name	CAS Number	Eco Toxicity
p-Dichlorobenzene	106-46-7	96 HR LC50 ONCORHYNCHUS MYKISS 0.88 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 1.5 - 1.7 MG/L

## Section 13

### Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14

### Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1,4-Dichlorobenzene) Reportable Quantity (RQ): 100 lbs Marine pollutant: No Poison Inhalation Hazard: No	UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dichlorobenzene)

## Section 15

### Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
p-Dichlorobenzene	106-46-7	1,4-Dichlorobenzene	No	100 lb final RQ; 45.4 kg final RQ	No	No

**California Prop 65:** WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## Section 16

### Additional Information

# Safety Data Sheet

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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.

## Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health