

p-Dichloro Benzene CAS No 106-46-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifiers Product name	:	p- Dichloro Benzene
	CAS-No.	:	106-46-7
1.2 Relevant identified uses of the substance or mixture and uses advised against		ne substance or mixture and uses advised against	
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of Company		safety data sheet Pallav Chemicals & Solvents Pvt. Ltd 253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050 INDIA
	Telephone	:	+91 22 4928 4000

:

1.4 Emergency telephone number

Emergency Phone # : +91 22 4928 4000 (9:00am - 6:00 pm) [Office hours]

sales@pallavchemicals.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Carcinogenicity (Category 2) Eye irritation (Category 2) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Limited evidence of a carcinogenic effect. Irritating to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Email

Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram

Signal word	Warning
Hazard statement(s)	
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) P273 P281 P305 + P351 + P338	Avoid release to the environment. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove		
P501	contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/ container to an approved waste disposal plant.		
Supplemental Hazard Statements	none		
According to European Directive 67/548/EEC as amended. Hazard symbol(s)			
R-phrase(s) R36 R40 R50/53	Irritating to eyes. Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
S-phrase(s) S36/37 S46	Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label.		
S60 S61	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets.		
Other hazards - none			
COMPOSITION/INFORMATION ON INGREDIENTS			

3.1 Substances

2.3

3.

Formula Molecular Weight	: ⁶ 6H4Cl2 : 147,00 g/mol	
Component		Concentration
1,4-Dichlorobenzene CAS-No. EC-No. Index-No.	106-46-7 203-400-5 602-035-00-2	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed Produces:, methemoglobin, Nausea, Vomiting, Increased pulse rate, Headache, Impairment of vision
- **4.3** Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s) no data available

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

Components with workplace control

parameters 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: sheets Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: 52 - 54 °C - lit.
f)	Initial boiling point and boiling range	173 °C - lit.
g)	Flash point	66,0 °C - closed cup
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	8,8 hPa at 50,0 °C 0,5 hPa at 25,0 °C
I)	Vapour density	no data available
	Relative density Water solubility	1,241 g/cm3 at 25 °C no data available

	o)	Partition coefficient: n- octanol/water	log Pow: 3,40
	p)	Auto-ignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2	Oth	er safety information	
		Bulk density	650 kg/m3
10.	ST	ABILITY AND REACTIVIT	Y
10.1		activity data available	
10.2		emical stability data available	
10.3		ssibility of hazardous reac data available	tions
10.4	-	n ditions to avoid data available	
1	0.5 Oxi	Incompatible materials dizing agents	
10.6		zardous decomposition pro ner decomposition products	
11.	то	XICOLOGICAL INFORMA	TION
11.1 l	nfor	mation on toxicological e	effects
	Acute toxicity LD50 Oral - rat - 500,0 mg/kg		
	LD	50 Dermal - rabbit - > 2.00	0 mg/kg
	Skin corrosion/irritation no data available		
	Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available		
		rm cell mutagenicity data available	
	Ca	rcinogenicity	
	This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.		
	Lin	nited evidence of carcinoge	enicity in animal studies
	IAF	RC: 2B - Group 2B: Po	ossibly carcinogenic to humans (1,4-Dichlorobenzene)
		productive toxicity data available	

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes serious eye irritation.

Signs and Symptoms of Exposure

Produces:, methemoglobin, Nausea, Vomiting, Increased pulse rate, Headache, Impairment of vision

Additional Information

RTECS: CZ4550000

12. ECOLOGICAL

INFORMATION 12.1 Toxicity

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 2,1 mg/l - 96,0 h
	LC50 - Pimephales promelas (fathead minnow) - 4,2 mg/l - 96,0 h
	LOEC - other fish - 0,263 mg/l - 10,0 d
	NOEC - Cyprinodon variegatus (sheepshead minnow) - 5,6 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,70 mg/l 🛛 - 48 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - 28,00 mg/l 🛛 - 48 h

12.2 Persistence and degradability

aerobic - Exposure time 20 d Result: 20 % - Not readily biodegradable.

12.3 Bioaccumulative potential

Biodegradability

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 7 d -0,003 mg/l Bioconcentration factor (BCF): 112

- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- **12.6** Other adverse effects Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene) Environmentally hazardous substance, solid, n.o.s. (1,4-Dichlorobenzene) IATA: 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG Marine Pollutant: yes IATA: yes 14.6 Special precautions for user no data available 15. **REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment no data available

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.