



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. DD 30
Effective Date February 20, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	PARA-DICHLOROBENZENE
Chemical Synonyms	1,4-Dichlorobenzene
Formula	C ₆ H ₄ Cl ₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	106-46-7

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CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

Health 3
Fire 2
Reactivity 0

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
para-Dichlorobenzene	100%	See Section V.

WARNING! HARMFUL IF INHALED OR SWALLOWED. CAUSES

SKIN, EYE AND RESPIRATORY TRACT IRRITATION. COMBUSTIBLE.

SECTION III PHYSICAL DATA

Melting Point (°F)	53°C (127.4°F)	Specific Gravity (H ₂ O = 1)	1.458 @ 20/4°C
Boiling Point (°F)	174°C (345.2°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	0.6 @ 20°C (68°F)	Evaporation Rate (water = 1)	Less than 1.
Vapor Density (Air=1)	5.1		
Solubility in Water	Insoluble (0.008 grams per 100 mL. water at 25°C).		
Appearance & Odor	White crystalline solid having penetrating "mothball" odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	66°C (150°F) COC	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Water spray, dry chemical, foam CO ₂ , or any class B extinguishing agent.				

SPECIAL FIREFIGHTING PROCEDURES

Moderate fire hazard when exposed to heat or flame. Firefighters must wear a NIOSH/MSHA-approved, self-contained pressure-demand breathing apparatus for possible exposure to vapors or gases.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Can react vigorously with oxidizing substances.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

TWA: 75 ppm; 451 mg/m³. STEL: 110 ppm; 661 mg/m³. (ACGIH 1992-93) Orl-rat LD50: 3,826 mg/kg. Drml-rbt LD50: > 5,010 mg/kg. Vpr-Inh-rat LC50: > 5.0 mg/1 (4 hr.)

Effects of Overexposure

TARGET ORGANS AFFECTED: Liver, kidneys, lungs, central nervous system. Inhalation can cause effects such as loss of appetite, headache, dizziness, nausea, irritation of the eyes, nose and throat. Contact with eyes can cause severe irritation and pain. Skin contact with solid causes slight irritation. Ingestion may cause abdominal pain, vomiting, diarrhea, coughing, restlessness and effects similar to those listed for inhalation.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
INGESTION: If swallowed, if conscious, give several glasses of water to drink. Do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA

Stability	Unstable Stable	Conditions to Avoid	Direct flame contact. Excessive temperature and heat.
	X		

Incompatibility (Materials to Avoid) Strong oxidizers and oxidizing agents.

Hazardous Decomposition Products Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide, chlorides and chlorines.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Provide adequate ventilation. Sweep up and place in a metal container. Wash spill area with soap and water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If fumes or vapors exists, work in ventilation hood or wear a NIOSH/MSHA approved respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, smock, apron, eye wash station, ventilation hood, proper gloves, fire extinguisher.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry, well-ventilated place away from oxidizing materials, heat and open flame. Wash thoroughly with soap and water after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and clothing. Avoid breathing dust, vapors or spray mist. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	2/20/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20