



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
	Class D-2A: Material causing other toxic effects (VERY TOXIC).	

Section 1. Product and Company Identification

Product Name / Trade name	Paradichlorobenzene	Associated Product's Item Code	21-155
Synonym	1,4-Dichlorobenzene, p-Dichlorobenzene Deodorant blocks Urinal blocks Toilet bowl block Urinettes	CAS #	106-46-7
Chemical Family	Aromatic halogenated compound.	DSL	CEPA DSL: 1,4-Dichlorobenzene
Chemical Formula	C ₆ H ₄ Cl ₂	Validation Date	4/10/2007.
Manufacturer	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	Print Date	5/5/2007.
Material Uses	Consumer products: Deodorizer.	In Case of Emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
1) PARADICHLOROBENZENE	106-46-7	100	TWA: 10 ppm from ACGIH (Canada, 1999). Period: 8 hour(s). TWA: 60 mg/m ³ from ACGIH (Canada, 1999). Period: 8 hour(s).	¹⁾ PARADIC TWA: 75 ppm from OSHA (United States, 1999). Period: 8 hour(s). TWA: 450 mg/m ³ from OSHA (United States, 1999). Period: 8 hour(s).

Section 3. Emergency Overview

Hazard Overview	WARNING. Harmful if swallowed. Keep out of reach of children. Keep in a cool, well-ventilated place. Risk of cancer depends on duration and level of exposure. Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing dust. Wash thoroughly after handling.
Potential Acute Health Effects	Hazardous in case of ingestion, of inhalation.
Note to Physician	Not available.

Section 4. First Aid Measures

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. If irritation persists, seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. SEEK IMMEDIATE MEDICAL ATTENTION.

Section 5. Fire Fighting Measures

Products of Combustion	These products are carbon oxides (CO, CO ₂), halogenated compounds. Toxic fumes of hydrogen chloride.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Fire Hazards	When heated to decomposition it emits acrid smoke and irritating fumes.
Explosion Hazards	No additional remark.

Continued on Next Page



Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Use appropriate instruments to put the spilled material in a waste disposal. Dispose of in accordance with regional regulations.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep away from sources of ignition. Keep away from heat. Keep away from direct sunlight or strong incandescent light. Keep in a cool, well-ventilated place.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Safety glasses.
Body	No special protective clothing is required.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).

Section 9. Physical and Chemical Properties

Physical State and Appearance	Crystalline solid.	Odor	Characteristic. May contain product specific fragrances.
Molecular Weight	147.01 g/mole	Taste	Not available.
pH (1% Soln/Water)	Not applicable.	Color	White. May be dyed for specific products.
Boiling/Condensation Point	173°C (343.4°F)	Volatility	Not available.
Melting/Freezing Point	53°C (127.4°F)	Evaporation Rate	Not available.
Specific Gravity	1.46 (d ²⁰ ₄)	Odor Threshold	15 ppm
Vapor Pressure	Not applicable.	Viscosity	Not available.
Vapor Density	5.08 (Air = 1)	Solubility	Soluble in methanol, diethyl ether, acetone. Insoluble in water.
VOC Content	Not available.	Other Properties	Not available.

The Product is:	Combustible.
Autoignition Temperature	413°C (775.4°F)
Flash Points	CLOSED CUP: 65.6°C (150.1°F). (TAG).
Flammable Limits	LOWER: 2.5% UPPER: 16%
Fire Hazards in Presence of Various Substances	Combustible liquid and vapour.

Section 10. Stability and Reactivity

Stability	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Reactive with oxidizing agents, alkalis.

Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 2830 mg/kg [Rabbit]. Acute dermal toxicity (LD50): 2000 mg/kg [Rabbit].
Acute Effects on Humans	<p>Eyes Contact may cause eye irritation.</p> <p>Skin Prolonged contact can cause skin irritation.</p> <p>Inhalation Inhalation is minimal since vapours are unlikely due to physical properties. Practically non-toxic by inhalation.</p> <p>Ingestion Hazardous in case of ingestion.</p>
Chronic Effects on Humans	Hazardous in case of ingestion. CARCINOGENIC EFFECTS: Classified A3 (Proven for animal) by ACGIH, 2B (Possible for human) by IARC. MUTAGENIC EFFECTS: Classified None for human. TERATOGENIC EFFECTS: Classified None for human. DEVELOPMENTAL TOXICITY: Classified Development toxin [None.]. The substance may be toxic to kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.


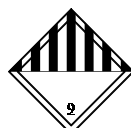

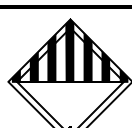
Section 12. Ecological Information

Ecotoxicity	Not available.
--------------------	----------------


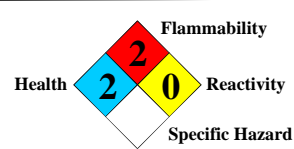
Section 13. Disposal Considerations

Waste Information	Not available.
--------------------------	----------------

Section 14. Transport Information

TDG Classification (Canada)	TDG CLASS 9.2: Environmentally hazardous material.	
PIN (Canada)	Shipping name: Environmentally hazardous substances, solid n.o.s. (p-Dichlorobenzene) UN: 3077 PG: III	
Special Provisions for Transport (Canada)	Controlled under TDG if shipped in packages of 5 kg or greater. Uncontrolled for packages less than 5 kg.	
IMDG Classification	9	 
PIN	Shipping name: Environmentally hazardous substances, solid, n.o.s. UNNA: UN 3077 PG: III	
Marine Pollutant	IMDG Class: Marine Pollutant. (Pollutant)	
DOT Classification (U.S.A)	CLASS 9: Miscellaneous hazardous material.	
PIN	Environmentally hazardous substances, solid, n.o.s. (p-Dichlorobenzene), 9, UN 3077, III, Pollutant.	
Special Provisions for Transport (U.S.)	In inner containers of 100 lbs (45.36 kg) capacity or less this product is exempt from DOT regulations (non regulated).	

Section 15. Other Regulatory Information and Pictograms

WHMIS Classification (Canada)	Class D-2A: Material causing other toxic effects (VERY TOXIC).									
HCS Classification (U.S.A.)	Class: Target organ effects.									
USA Regulatory Lists	TSCA inventory: 1,4-Dichlorobenzene									
Hazardous Material Information System (U.S.A.)	<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Flammability</td> <td>2</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>E</td> </tr> </table>	Health	2	Flammability	2	Reactivity	0	Personal Protection	E	National Fire Protection Association (U.S.A.) 
Health	2									
Flammability	2									
Reactivity	0									
Personal Protection	E									

**Section 16. Other Information**

Validated and verified by Product Development and Technical Coordinator on 4/10/2007.

Printed 5/5/2007.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.