

Material Safety Data Sheet

WHMIS (Pictograms)

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WHMIS (Classification)

Class D-2A: Material causing other toxic effects (VERY TOXIC). B-3 combustible liquid when heated above melting point Personal Protective Equipment



Section 1. Product and Company Identification			
Product para-Dichlorobenzene Name / Trade name		Associated Product's Item Code	PARAZENE S
Synonym	Not available.	CAS #	106-46-7
Chemical Family	Aromatic halogenated compound. (Aromatic.)	Validation Date	5/5/2005.
Chemical Formula	C ₆ H ₄ Cl ₂	Print Date	5/5/2005.
Manufacturer	Recochem inc. 850 Montée de Liesse Montréal (Québec) (514) 341-3550 www.recochem.com	Emergency Comm Affairs	iem Inc. unications and Regulatory Department 91-1788
Material Uses	Consumer products: Deodorizer. Moth preventative.		

Section 2. Hazardous Ingredients				
Name	CAS # % by Exposure Limits			
		Weight	Canadian Values (ACGIH)	U.S. Values (OSHA)
para-Dichlorobenzene	106-46-7	100	ACGIH (Canada, 2003). TWA: 10 ppm 8 hour(s). TWA: 60 mg/m ³ 8 hour(s).	para- biotecodesezee OSHA (United States, 2003). TWA: 75 ppm 8 hour(s). TWA: 450 mg/m³ 8 hour(s).

Section 3. Hazar	rd Identification
Emergency Overview	WARNING!
	CAUSES EYE IRRITATION. POSSIBLE CANCER HAZARD CONTAINS MATERIAL WHICH CAN CAUSE CANCER
	Risk of cancer depends on duration and level of exposure.
	Risk of cancer depends on duration and level of exposure. Do not get in eyes. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Potential Acute Health Effects	See Section #11: "Toxicological Information" for further human health effects.
	Hazardous in case of ingestion, . Slightly hazardous in case of skin contact (irritant), of eye contact (irritant, corrosive) , of inhalation (lung irritant). Non-corrosive for skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
Note to Physician	Not available.

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para-Dichlorobenzene

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	

Section 5. Fire Fighting Measures

Products of Combustion	These products are carbon oxides (CO, CO ₂), halogenated compounds, hydrogen chloride phosgene (COCl ₂).
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. 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	Not available.

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	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.	

Section 7. Handling and Storage

Handling	Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing dust. Do not get in eyes. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	See Section #10 for applicable incompatible materials. Keep container tightly closed. Keep container in a cool, well-ventilated area.

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.
 Lab coat.

 Respiratory
 Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

 Hands
 Impervious gloves.

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para-Dichlorobenzene

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Section 9. Physical and Chemical Properties			
Physical State and Appearance	Solid. (Crystalline solid.)	Odour	Chlorinated hydrocarbon odour. (Strong.)
Molecular Weight	147.01 g/mole	Taste	Not available.
pH (1% Soln/Water)	Not applicable.	Colour	White. (Light.)
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 (Water = 1)	Odour Threshold	15 ppm
Vapour Pressure	0.08 kPa (0.6 mm Hg) (at 20°C)	Viscosity	Not available.
Vapour Density	5.07 (Air = 1)	Solubility	Easily soluble in methanol, diethyl ether, acetone. Insoluble in cold water, hot water.
VOC Content	Not available.	Other Properties	Not available.
The Product is:	Combustible liquid. when melted		
Auto-ignition Temperature	413°C (775.4°F)		
Flash Point	Closed cup: 65.6°C (150.1°F). (TAG)		
Flammable Limits	LOWER: 2.5% UPPER: 16%		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge, of oxidizing materials. Non-flammable in presence of shocks, of heat.		

Section 10. Stability and Reactivity		
Stability	The product is stable.	
Conditions of Instability	Not available.	
Incompatibility with Various Substances	Slightly reactive to reactive with OXIDIZING AGENTS, metals, alkalis.	

Routes of Entry	Eye contact. Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 2830 mg/kg [Rabbit]. Acute dermal toxicity (LD50): 2000 mg/kg [Rabbit].		
Acute Effects on Human	15		
Ey	Eyes Slightly hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindnes		
Sk	kin Slightly hazardous in case of skin contact (irritant). Non-corrosive for skin. The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.		

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Inhalation	Slightly hazardous in case of inhalation (lung irritant). Inhalation of dust will produce irr respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by respiratory irritation.		
Ingestion	May be fatal if swallowed. May cause burns to mouth, throat and stomach.		
Chronic Effects on Humans			peated exposure of the ocal skin destruction, or

Section 12. Ecological Information

Ecotoxicity

For accidential discharges into environment, see Section #6: "Accidential Release Measures" for suggested instructions.

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

Canada Transportation of	of Dangerous Goods (TDG) Information		
Primary Class	Class 9: Miscellaneous hazardous material.		
Subsidiary Class (if applicable <u>)</u>	-		
Proper shipping name	Environmentally hazardous substances n.o.s. (para- dichlorobenzene) UN 3077		
Hazard Identification Number	UN 3077		
Packing Group	III		
Special Provisions	Packages of 5kg or less are classed as "limited Quantity" "Consumer Commodities" according to TDG		
International Maritime I	Dangerous Goods (IMDG) Transportation Information		
Primary Class	Class 9: Miscellaneous hazardous material.		
Subsidiary Class (if applicable)	-	3	
Proper shipping name	Environmentally hazardous substances, solid, n.o.s. (1,4- Dichlorobenzene).		
Hazard Identification Number	UN 3077	\wedge	
Packing Group	III		
Marine Pollutant	Marine Pollutant (IMDG)	MARINE POLLUTANT	
Special Provisions			
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	Emergency Schedules (EmS) none	
	<u>Marine pollutant</u> Marine pollutant (P)	
	Remarks In containers of 5 L (5Kg) capacity or less this product is classified as a "Consumer Commodity" under IMDG regulations.	
United States Departmen	t of Transportation (DOT) Information	
Primary C <u>lass</u>	Class 9: Miscellaneous hazardous material.	
Subsidiary class (if applicable)	-	
Proper shipping name	Environmentally hazardous substances, solid, n.o.s. (p-Dichlorobenzene) (1,4-Dichlorobenzene).	₩
Hazard Identification Number	UN 3077	
Packing Group	III	
Special Provisions	Packages of 5kg or less are classed as "Consumer Commodities" according to DOT	
International Air Transport Association (IATA)	For air shipment classification and associated regulation IATA Dangerous Goods Regulations.	s, please refer to the latest edition of

WHMIS Classification (Canada)	Class D-2A: Material causing other toxic effects (VERY TOXIC). B-3 combustible liquid when heated above melting point				
Canada Domestic Substances List (DSL) Status	This product and/ or all of its components are on the DSL.				
HCS Classification (U.S.A.)	Target organ effects Corrosive Material				
U.S.A. Regulatory Lists	This product and/ or all of its components are on the TSCA inventory list.				
Hazardous Material Information System (U.S.A.)	Health Flammability Reactivity Personal Protection	2 2 0 E	National Fire Protection Association (U.S.A.)	Health 2 0 Reactivity Specific Hazard	

Section 16. Other Information

Validated and verified by Compliance and Technical Information Manager on 5/5/2005.

Printed 5/5/2005.

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.

MSDS are available at www.recochem.com