

# 4,4'-DICHLORO-ALPHA-TRICHLOROMETHYL BENZHYDROL

DTM

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms 1,1-Bis-(p-Chlorophenyl)-2,2,2-trichloroethanol Di-(p-chlorophenyl) trichloromethylcarbinol Dicofal Keltthane Keltanethanol	Solid powder or liquid (solution)	Solid is white to grey May float or sink in water.	Solid is odorless; liquid has odor of solvent	<p><b>4.1 Flash Point:</b> 75°F O.C. (xylene)</p> <p><b>4.2 Flammable Limits in Air:</b> 1.1%-7.0% (for xylene solution)</p> <p><b>4.3 Fire Extinguishing Agents:</b> Foam, dry chemical, carbon dioxide</p> <p><b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Water may be ineffective.</p> <p><b>4.5 Special Hazards of Combustion Products:</b> Irritating hydrogen chloride fumes may form in fire.</p> <p><b>4.6 Behavior in Fire:</b> Xylene solvent vapors may travel to source of ignition and flash back.</p> <p><b>4.7 Auto Ignition Temperature:</b> 986°F (for xylene solution)</p> <p><b>4.8 Electrical Hazards:</b> (xylene) Class 1, Group D</p> <p><b>4.9 Burning Rate:</b> (xylene) 5.8 mm/min.</p> <p><b>4.10 Adiabatic Flame Temperature:</b> Currently not available</p> <p><b>4.11 Stoichiometric Air to Fuel Ratio:</b> 69.0 (calc.)</p> <p><b>4.12 Flame Temperature:</b> Currently not available</p> <p><b>4.13 Combustion Molar Ratio (Reactant to Product):</b> 21.0 (calc.)</p> <p><b>4.14 Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>7.1 Grades of Purity:</b> Technical; 82-88%; 35% plus 65% inert solids; 75% solution in xylene, a combustible solvent.</p> <p><b>7.2 Storage Temperature:</b> Ambient</p> <p><b>7.3 Inert Atmosphere:</b> No requirement</p> <p><b>7.4 Venting:</b> Open (flame arrester)</p> <p><b>7.5 IMO Pollution Category:</b> Currently not available</p> <p><b>7.6 Ship Type:</b> Currently not available</p> <p><b>7.7 Barge Hull Type:</b> Currently not available</p>
		Keep people away. Avoid inhalation. Shut off ignition sources. Call fire department. Avoid contact with liquid and solid. Notify local health and pollution control agencies. Protect water intakes.			<p><b>8. HAZARD CLASSIFICATIONS</b></p> <p><b>8.1 49 CFR Category:</b> Not listed</p> <p><b>8.2 49 CFR Class:</b> Not pertinent</p> <p><b>8.3 49 CFR Package Group:</b> Not listed</p> <p><b>8.4 Marine Pollutant:</b> No</p> <p><b>8.5 NFPA Hazard Classification:</b> Not listed</p> <p><b>8.6 EPA Reportable Quantity:</b> 10 pounds</p> <p><b>8.7 EPA Pollution Category:</b> A</p> <p><b>8.8 RCRA Waste Number:</b> Not listed</p> <p><b>8.9 EPA FWPCA List:</b> Yes</p>
Fire	LIQUID SOLVENT MAY BE FLAMMABLE. SOLID IS COMBUSTIBLE. Irritating gases may be produced when heated. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Wear goggles and self-contained breathing apparatus. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				<p><b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b></p> <p><b>9.1 Physical State at 15°C and 1 atm:</b> Solid or liquid</p> <p><b>9.2 Molecular Weight:</b> 470.5</p> <p><b>9.3 Boiling Point at 1 atm:</b> (Data apply to xylene solution; solid decomposes) 282°F = 139°C = 412°K</p> <p><b>9.4 Freezing Point:</b> Not pertinent</p> <p><b>9.5 Critical Temperature:</b> Not pertinent</p> <p><b>9.6 Critical Pressure:</b> Not pertinent</p> <p><b>9.7 Specific Gravity:</b> &gt;1.1 at 20°C (solid) &lt;0.9 at 20°C (liquid)</p> <p><b>9.8 Liquid Surface Tension:</b> Not pertinent</p> <p><b>9.9 Liquid Water Interfacial Tension:</b> Not pertinent</p> <p><b>9.10 Vapor (Gas) Specific Gravity:</b> Not pertinent</p> <p><b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent</p> <p><b>9.12 Latent Heat of Vaporization:</b> Not pertinent</p> <p><b>9.13 Heat of Combustion:</b> Currently not available</p> <p><b>9.14 Heat of Decomposition:</b> Not pertinent</p> <p><b>9.15 Heat of Solution:</b> Not pertinent</p> <p><b>9.16 Heat of Polymerization:</b> Not pertinent</p> <p><b>9.17 Heat of Fusion:</b> Currently not available</p> <p><b>9.18 Limiting Value:</b> Currently not available</p> <p><b>9.19 Reid Vapor Pressure:</b> Currently not available</p>
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. If inhaled will cause headache or dizziness. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.			<p><b>5. CHEMICAL REACTIVITY</b></p> <p><b>5.1 Reactivity with Water:</b> No reaction</p> <p><b>5.2 Reactivity with Common Materials:</b> Contact with steel at elevated temperature causes formation of toxic chlorine and hydrogen chloride gases. Liquid may attack some forms of plastics.</p> <p><b>5.3 Stability During Transport:</b> Stable</p> <p><b>5.4 Neutralizing Agents for Acids and Caustics:</b> Not pertinent</p> <p><b>5.5 Polymerization:</b> Not pertinent</p> <p><b>5.6 Inhibitor of Polymerization:</b> Not pertinent</p>	
Water Pollution	Dangerous to aquatic life in high concentrations. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			<p><b>6. WATER POLLUTION</b></p> <p><b>6.1 Aquatic Toxicity:</b> 110 ppm/24 hr/rainbow trout/TL<sub>50</sub>/fresh water</p> <p><b>6.2 Waterfowl Toxicity:</b> 1,700-1,900 ppm</p> <p><b>6.3 Biological Oxygen Demand (BOD):</b> Currently not available</p> <p><b>6.4 Food Chain Concentration Potential:</b> Currently not available</p> <p><b>6.5 GESAMP Hazard Profile:</b> Not listed</p>	<p><b>NOTES</b></p>
1. CORRECTIVE RESPONSE ACTIONS	Stop discharge Contain Collection Systems: Skim; Dredge Do not burn Clean shore line	2. CHEMICAL DESIGNATIONS			
		<p><b>2.1 CG Compatibility Group:</b> Not listed.</p> <p><b>2.2 Formula:</b> (ClC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>C(OH)CCl<sub>3</sub></p> <p><b>2.3 IMO/UN Designation:</b> Not listed</p> <p><b>2.4 DOT ID No.:</b> Not listed</p> <p><b>2.5 CAS Registry No.:</b> Currently not available</p> <p><b>2.6 NAERG Guide No.:</b> Not listed</p> <p><b>2.7 Standard Industrial Trade Classification:</b> 51219</p>			
3. HEALTH HAZARDS					
<p><b>3.1 Personal Protective Equipment:</b> Self-contained breathing apparatus if exposed to vapors; rubber gloves; splash goggles</p> <p><b>3.2 Symptoms Following Exposure:</b> Inhalation or ingestion causes nausea, headache, weight loss, convulsions, possible kidney and liver damage. Contact with eyes causes irritation.</p> <p><b>3.3 Treatment of Exposure:</b> INHALATION: Move to fresh air; apply artificial respiration and oxygen if indicated. EYES: Wash for 15 min. with water; call a physician. SKIN: Wash well with soap and water.</p> <p><b>3.4 TLV-TWA:</b> Not listed.</p> <p><b>3.5 TLV-STEL:</b> Not listed.</p> <p><b>3.6 TLV-Ceiling:</b> Not listed.</p> <p><b>3.7 Toxicity by Ingestion:</b> Grade 2; oral LD<sub>50</sub> = 575 mg/kg (rat), 1,810 mg/kg (rabbit)</p> <p><b>3.8 Toxicity by Inhalation:</b> Currently not available.</p> <p><b>3.9 Chronic Toxicity:</b> Suppresses immune reactions in rats</p> <p><b>3.10 Vapor (Gas) Irritancy Characteristics:</b> Currently not available</p> <p><b>3.11 Liquid or Solid Characteristics:</b> Currently not available</p> <p><b>3.12 Odor Threshold:</b> Currently not available</p> <p><b>3.13IDLH Value:</b> Not listed.</p> <p><b>3.14 OSHA PEL-TWA:</b> Not listed.</p> <p><b>3.15 OSHA PEL-STEL:</b> Not listed.</p> <p><b>3.16 OSHA PEL-Ceiling:</b> Not listed.</p> <p><b>3.17 EPA AEGL:</b> Not listed</p>					

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT