## DIETHYL PHTHALATE

	CAUTION	IARY RESPO	NSE INFORM/	ATION	ר ר	4 FIRE HAZARDS	7 SHIPPING INFORMATION		
Common Synonyms 1,2-Benzenedicarboxylic acid, diethyl ester Ethyl phthalate Phthalic acid, diethyl ester		Liquid White Mild odo Sinks in water. Freezing point is 27°F.		Mild chemical odor		<ul> <li>4.1 Flash Point: 305°F O.C.</li> <li>4.2 Flammable Limits in Air: LFL 0.75% (at 368°F)</li> <li>4.3 Fire Extinguishing Agents: Dry chemical, foam, carbon dioxide</li> <li>4.4 Fire Extinguishing Agents Agents Not to Be</li> </ul>	7.1 Grades of Purity: Technical; 99+% 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open 7.5 IMO Pollution Category: C		
Keep people away. Call fire department. Notify local health and pollution control agencies. Protect water infakes.					1	Used: Water or foam may cause frothing. 4.5 Special Hazards of Combustion Products: Irritating vapors of unburned	7.6 Ship Type: 3 7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NEBA Hazard Classification:		
Fire	Fire Combustible. Irritating gases may be produced when heated. Wear goggles and self-contained breathing apparatus. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire.					chemical may form in fire. 4.6 Behavior in Fire: Currently not available 4.7 Auto Ignition Temperature: 855°F 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Currently not available			
Exposure	e LIQUID Not harmful.				1	4.10 Adiabatic Flame Temperature: Currently not available	8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				]	<ul> <li>4.11 Stotchometric Air to Fuer Ratio: 64.3 (calc.)</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): 19.0 (calc.)</li> <li>4.14 Minimum Oxygen Concentration for Combustion (MOC): Not listed</li> </ul>	Flammability (Red) 1 Instability (Yellow) 0 8.6 EPA Reportable Quantity: 1000 pounds 8.7 EPA Pollution Category: C 8.8 RCRA Waste Number: U088 8.9 EPA FWPCA List: Not listed		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: Not listed.       2.2 Formula: Cd+4(COOCd+4)a         2.3 IMO/UN Designation: Not listed       2.4 MO/UN Designation: Not listed         2.4 DOT ID Not: Not listed       2.5 CAS Registry Not: 84-66-2         2.6 NAERG Guide Not: Not listed       2.7 Standard Industrial Trade Classification: 51385         3. HEALTH HAZARDS				L DESIGNATIONS ity Group: Not listed. COOC:Hs): ation: Not listed listed lo: 84-66-2 No: Not listed strial Trade Classification:		5. CHEMICAL REACTIVITY     5.1 Reactivity with Water: No reaction     5.2 Reactivity with Common Materials: May     attack some forms of plastics.     5.3 Stability During Transport: Stable     5.4 Neutralizing Agents for Acids and     Caustics: Not pertinent     5.5 Polymerization: Not pertinent     5.6 Inhibitor of Polymerization: Not pertinent	<ol> <li>9. PHYSICAL &amp; CHEMICAL PROPERTIES</li> <li>9.1 Physical State at 15° C and 1 atm: Liquid</li> <li>9.2 Molecular Weight: 222</li> <li>9.3 Boiling Point at 1 atm: 569.3°F = 298.5°C = 571.7°K</li> <li>9.4 Freezing Point: 27°F = -3°C = 270°K</li> <li>9.5 Critical Temperature: Not pertinent</li> </ol>		
<ol> <li>Symptoms Following Exposure: Symptome unlikely from any form of exposure.</li> <li>Transmith of Exposure: HMHA/TON: remove to fresh air. EYES: flush with water. SKIN: flush with water, wash well with soap and water.</li> <li>Tu VSTEL: Itsi Isladi.</li> <li>Tu VSTEL: Itsi Isladi.</li> <li>Toxicity by Impastion: Grade 2: oral LDs = 1,000 mg/kg (rabbit).</li> <li>Toxicity by Impastion: Grade 2: oral LDs = 1,000 mg/kg (rabbit).</li> <li>Toxicity by Impastion: Currently not available.</li> <li>Toxicity by Impastion: Currently not available.</li> <li>Toxicity flush Characteristics: Colorless</li> <li>Tu Qiag Inflatt Characteristics: Colorless</li> <li>Tu Qiag Inflatt Characteristics: Colorless</li> <li>Toxicity Isladi.</li> <li>Grade Theshold: Currently not available</li> <li>Other Pace-Inflatt Characteristics: Colorless</li> <li>Toxicity Paulo: Not Isted.</li> <li>Gosth PEL-STEL: Not Isted.</li> <li>Gosth PEL-STEL: Not Isted.</li> <li>Gosth PEL-STEL: Not Isted.</li> <li>To PA AEGL: Not Isted.</li> <li>To PA AEGL: Not Isted.</li> </ol>				osure. with water. SKIN: flush with		6. WATER POLLUTION 6.1 Aquatic Toxicity: 1.2 ppm/30 min/goldfist/killed/fresh water 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 2 Human Oral hazard: 1 Human Contact hazard: 11 Reduction of amenities: X NOTI	<ul> <li>9.7 Specific Gravity: 1.12 at 20°C (liquid)</li> <li>9.8 Liquid Surface Tension: 37.5 dynes/cm = 0.0375 N/m at 20°C</li> <li>9.9 Liquid Water Interfacial Tension: 16.27 dynes/cm = 0.01627 N/m at 20.5°C</li> <li>9.10 Vapor (Gas) Specific Gravity: Not pertinent</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent</li> <li>9.12 Latent Heat of Vaporization: 170 Btu/lb = -6,070 cal/g = -254 × 10° J/kg</li> <li>9.14 Heat of Decomposition: Not pertinent</li> <li>9.15 Heat of Fusion: Currently not available</li> <li>9.18 Limiting Value: Currently not available</li> <li>9.19 Reid Vapor Pressure: Currently not available</li> <li>9.13 Available</li> </ul>		

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9. SATURATED L	20 QUID 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
51 52 53 54 55 56 57 58 59 60 61 62 63 64 66 67 68 69 70 71 71 73 74 75 76	69.910 69.910		NOT PERTIZENT	30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200	1.010 1.006 1.007 0.997 0.988 0.984 0.979 0.975 0.970 0.966 0.961 0.953 0.944 0.953 0.944 0.939 0.935	34 36 40 42 44 46 48 52 52 54 56 56 56 56 60 62 62 66 60 62 62 66 70 77 74 76	32.400 30.450 28.630 25.340 23.860 22.480 21.180 19.980 18.840 17.780 15.860 14.990 14.170 13.400 12.680 12.010 11.370 10.210 9.682

9. SOLUBILIT	24 Y 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
68	0.012		N O T		N O T		N O T
			I P R T I N E N T		I PERTINENT		- PERT-NENT