BUTYL BENZYL PHTHALATE

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0	CAUTION	ARY RESPO	ONSE INFORMA	TION		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Benzyl n-butyl phthalate Phthalic acid, benzyl butyl ether Liquid Colorless Slight Avoid contact with liquid. Notify local health and pollution control agencies. Sinks in water. State of the state			Slight odor		 4.1 Flash Point: 390°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Dry chemical, carbon dioxide, foam 4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing. 	7.1 Grades of Purity: Commercial 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open 7.5 IMO Pollution Category: A 7.6 Ship Type: 2 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 WED Alverand Orce Signation			
Fire	Combustible. Irritating gases may be produced when heated. Extinguish with dry chemicals, alcohol foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water. CALL FOR MEDICAL AID.								 Special Hazards of Combustion Products: Initiating vapors of unburned chemical may form in fires. Behavior in Fire: Currently not available Auto Ignition Temperature: Currently not available Electrical Hazards: Currently not available
Water	LIQUID Irritating to skin and eyes. Remove contarninated clothing and shoes. Flush affected areas with plenty of water.				$\left \right $	 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 105.9 (calc.) 	Category Classification Health Hazard (Blue) 1 Flammability (Red) 1 Instability (Yellow) 0		
Pollution	Water Interformer for the former				┘│	4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 29.5 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	 8.6 EPA Reportable Quantity: 100 pounds 8.7 EPA Pollution Category: B 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed 		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge 2.1 CG Compatib 2.2 Formula: Crei 3.1 IMO/UN Desig 2.4 DOT ID No.: N 5.5 CAS Registry 2.6 NAERG Guida 2.7 Standard Ind 51129			2. CHEMICAL 2.1 CG Compatibilit 2.2 Formula: Cathar 2.3 IMOUN Designa 2.4 DOT ID No.: Not 2.5 CAS Registry N 2.6 NAERG Guide N 2.7 Standard Indust 51129	DESIGNATIONS y Group: 4; Esters Dr tion: Not listed listed Dr: 85-68-7 Or Not listed rial Trade Classification:		5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: Currently not available 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent	 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 313 9.3 Boiling Point at 1 atm: 698°F = 380°C = 643°K 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 		
 HEALTH HAZARDS Personal Protective Equipment: Protective gloves and goggles Symptoms Following Exposure: Prolonged contact with liquid causes some irritation of eyes and skin. Treatment of Exposure: EYES: flush with water for 15 min. SKIN: wash well with soap and water. TLV-TWA: Not listed. TLV-STEL: Not listed. TV-Ceiling: Not listed. Toxicity by Ingestion: Grade 1; oral rat LDso = 13,500 mg/kg Toxicity by Inhalation: Currently not available. Othorie Toxicity: Currently not available Othorie Toxicity: Currently not available Ovapor (Gas) Irritant Characteristics: Vapors are nonirritating to eyes and throat. Uodor Threshold: Currently not available Our Threshold: Currently not available Solva PEL-TWA: Not listed. Solva PEL-STEL: Not listed. Solva PEL-STEL: Not listed. PALCE Stermannia Characteristics: Napors are nonirritating to eyes and throat. Solva PEL-STEL: Not listed. Solva PEL-STEL: Not listed. Solva PEL-STEL: Not listed. Solva PEL-STEL: Not listed. PERLORE Not listed. Solva PEL-Ceiling: Not listed. 				e irritation of eyes and vell with soap and water. throat. ss to skin.		Binibitor of Polymerization: Not pertinent Inhibitor of Polymerization: Not pertinent C. WATER POLLUTION Aquatic Toxicity: Currently not available Waterfowl Toxicity: Currently not available Biological Oxygen Demand (BOD): Currently not available Food Chain Concentration Potential: None OESAMP Hazard Profile: Bioaccumulation: Z Damage to living resources: 4 Human Contact hazard: 0 Reduction of amenities: X	 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.12 at 20°C (liquid) 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: -14,550 Btu/lb = -8,090 cal/g = -338 X 10° J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Fourierization: Not pertinent 9.16 Heat of Fourierization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Low 		
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9. SATURATED L	20 IQUID 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
52 54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82 84 86	70.469 70.400 70.330 70.259 70.190 70.120 70.049 69.980 63.910 63.839 63.770 63.500 63.570 63.500 63.429 63.360 69.290	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 71 71 72 73 74 75 76	0.500 0.500	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76	1.048 1.048	70 75 80 85 90 95 100 105 110 115 125 130 135 140 145 155 160 165 170 175 180 185 190	24.590 22.160 20.020 18.120 16.420 14.910 13.570 12.360 11.280 10.320 9.445 8.661 7.953 7.314 6.736 6.211 5.736 5.303 4.910 4.551 4.223 3.924 3.650 3.399 3.169

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
86	0.000	320 340 360 380 400 420 440 460 520 540 520 540 580 620 640 660 680	0.005 0.010 0.031 0.052 0.085 0.137 0.216 0.334 0.507 0.757 1.113 1.610 2.296 3.232 4.491 6.167 8.373 11.250	320 340 360 380 400 420 440 460 520 520 540 520 540 580 620 640 660 680	0.00020 0.00037 0.00107 0.01176 0.00282 0.00444 0.00685 0.01037 0.01542 0.02254 0.03245 0.04603 0.06440 0.08893 0.12130 0.16350 0.21810 0.28780		C U R R E N T L Y NOT A V A I L A B L E