## **DIUNDECYL PHTHALATE**

C	CAUTIONARY RESPO	ONSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION	
Common Synonyms 1,2-Benzenedicarboxylic acid, di-undecyl ester Phthalic acid, diundecyl ester Santicizer 711 Call fire department.		Colorless Odorless	<ul> <li>4.1 Flash Point: Currently not available</li> <li>4.2 Flammable Limits in Air: Currently not available</li> <li>4.3 Fire Extinguishing Agents: Dry chemical, CO<sub>2</sub>, or foam</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing</li> </ul>	<ul> <li>7.1 Grades of Purity: Currently not available</li> <li>7.2 Storage Temperature: Currently not available</li> <li>7.3 Inert Atmosphere: Currently not available</li> <li>7.4 Venting: Currently not available</li> <li>7.5 IMO Pollution Category: D</li> <li>7.6 Ship Type: Data not available</li> <li>7.7 Barge Hull Type: Currently not available</li> </ul>	
Notify local health and pollution control agencies. Protect water intakes.			<ul> <li>4.5 Special Hazards of Combustion Products: Currently not available</li> <li>4.6 Behavior in Fire: Currently not available</li> </ul>	8. HAZARD CLASSIFICATIONS	
Fire	Extinguish with dry chemical, for	am, or carbon dioxide.	4.7 Auto Ignition Temperature: Currently not available     4.8 Electrical Hazards: Currently not	<ul> <li>8.1 49 CFR Category: Not listed</li> <li>8.2 49 CFR Class: Not pertinent</li> <li>8.3 49 CFR Package Group: Not listed.</li> </ul>	
Exposure	Not harmful.		available Currently not available 4.9 Burning Rate: Currently not available	8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification:	
Water Pollution	Effects of low concentrations or Fouling to shoreline. May be dangerous if it enters wi Notify local health and wildlife of Notify operators of nearby wate	ater intakes. ficials.	<ul> <li>4.10 Adiabatic Flame Temperature: Currently not available</li> <li>4.11 Stoichometric Air to Fuel Ratio: 192.8 (calc.)</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): 55.0 (calc.)</li> </ul>	Category Classification Health Hazard (Blue)0 Flammability (Red)0 Instability (Yellow)0 8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed	
<ul> <li>1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skin Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl</li> <li>2. CHEMICAL DESIGNATIONS</li> <li>2.1 GG Compatibility Group: 34: Esters</li> <li>2.2 Formula: (CH+I)(COC:(Hz))2</li> <li>2.3 IMO/UN Designation: Not listed</li> <li>2.4 DOTI ID No: Not listed</li> <li>2.5 CAS Registry No: 38:48:20-2</li> <li>2.6 NAERG Guide No: Not listed</li> <li>2.7 Standard Industrial Trade Classification: 51:385</li> <li>3. HEALTH HAZARDS</li> <li>3. Treatment of Exposure: Leave contaminated area; wash skin with soap and water; flush eyes with water.</li> <li>3. Treatment of Exposure: Leave contaminated area; wash skin with soap and water; flush eyes with water.</li> <li>3. Tu-STEL: Not listed.</li> <li>3.5 Tu-STEL: Not listed.</li> <li>3.6 Tu-V-Gilling: Not listed.</li> <li>3.9 Chronic Toxicity: Currently not available.</li> <li>3.9 Chronic Toxicity: Currently not available.</li> <li>3.10 Vapor (Gas) Irritant Characteristics: No appreciable hazard. Practically harmless to the skin.</li> <li>3.12 Odor Threshold: Cdorless</li> <li>3.13 DLH Value: Not listed.</li> <li>3.16 OSHA PEL-STEL: Not listed.</li> <li>3.17 EPA AEGL: Not listed.</li> <li>3.17 EPA AEGL: Not listed.</li> </ul>		<ul> <li>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</li> <li>5. CHEMICAL REACTIVITY</li> <li>5.1 Reactivity with Vater: No reaction</li> <li>5.2 Reactivity with Common Materials: No reaction</li> <li>5.3 Stability During Transport: Stable</li> <li>5.4 Neutralizing Agents for Acids and Caustics: Currently not available</li> <li>5.5 Polymerization: Currently not available</li> <li>5.6 Inhibitor of Polymerization: Currently not available</li> <li>6. WATER POLLUTION</li> <li>6.1 Aquatic Toxicity: Currently not available</li> <li>6.2 Waterfowl Toxicity: Currently not available</li> <li>6.3 Biological Oxygen Demand (BOD): Currently not available</li> <li>6.4 God Chain Concentration Potential: Currently not available</li> <li>6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 1 Human Contact hazard: 0 Reduction of amenities: XX</li> </ul>	<ul> <li>8.9 EPA FWPCA List: Not listed</li> <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: 442.80</li> <li>9.3 Boiling Point at 1 atm: Currently not available</li> <li>9.4 Freezing Point: Currently not available</li> <li>9.5 Critical Pressure: Currently not available</li> <li>9.6 Critical Pressure: Currently not available</li> <li>9.7 Specific Gravity: Currently not available</li> <li>9.8 Liquid Surface Tension: Currently not available</li> <li>9.9 Liquid Water Interfacial Tension: Currently not available</li> <li>9.10 Vapor (Gas) Specific Gravity: 15.3</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</li> <li>9.12 Latent Heat of Vaporization: Currently not available</li> <li>9.14 Heat of Combustion: Currently not available</li> <li>9.15 Heat of Solution: Currently not available</li> <li>9.16 Heat of Fusion: Currently not available</li> <li>9.17 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> </ul>		

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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
	CURRENTLY NOT AVAILABLE		C U R R E N T L Y N O T A V A I L A B L E		C UR R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E

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
	C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y NOT A V A I L A B L E		C U R R E N T L Y NOT A V A I L A B L E	0 25 50 75 100 125 150 275 200 225 250 250 325 350 325 350 375 400 425 450 475 550 525 550 575 600	0.326 0.337 0.349 0.360 0.372 0.385 0.407 0.418 0.430 0.441 0.453 0.464 0.453 0.464 0.476 0.488 0.476 0.488 0.499 0.511 0.522 0.534 0.557 0.569 0.580 0.592 0.603