## DODECYL DIPHENYL ETHER DISULFONATE SOLUTION

CAUT	IONARY RESPO	ONSE INFORMATIC	DN	4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Dodecyl diphenyl ether sulfonate, disodium salt, aqueous solution Dowfax 2A1	Liquid	Light yellow to light brown solution	Disinfectant-type smell	<ul> <li>4.1 Flash Point: Not flammable</li> <li>4.2 Flammable Limits in Air: Not pertiner</li> <li>4.3 Fire Extinguishing Agents: Not pertin</li> <li>4.4 Fire Extinguishing Agents Not to Be</li> <li>1.4 Fire Extinguishing Agents Not to Be</li> </ul>	7.1 Grades of Purity: Aqueous solution, 47% maximum concentration           .t         7.2 Storage Temperature: Currently not available           .tent         7.3 Inert Atmosphere: None           .t         7.4 Venting: None
Keep people away. Avoid contact with liquid. Avoid inhalation. Wear goggles, self-contained breathing apparatus, and rubber overclothing, (including gloves). Notify local health and pollution control agencies.				4.5 Special Hazards of Combustion Products: May generate fumes of S or H/S in fire     4.6 Behavior in Fire: Organic portion may burn once water has evaporated. Use	7.5 IMO Pollution Category: A 7.6 Ship Type: 2 7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS
Protect water intakes. Fire Not flammable				4.7 Auto Ignition Temperature: Currently available	not 8.1 49 CFR Category: Not listed. 8.2 49 CFR Class: Not pertinent
Exposure         CALL FOR MEDICAL AID.           LIQUID         Will burn skin and eyes.           Harmful if svallowed.         Remove contaminated clothing and shoes. Flush affected areas with water.           IF IN EYES: hold eyelids open and flush with plenty of water.         IF SWALLOWED and victim is CONSCIOUS: have victim drink water or milk and induce vomiting.           IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS: do         If SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS: do				<ol> <li>Electrical Hazards: Currently not available</li> <li>Burning Rate: Currently not available</li> <li>Mitta Validatic Flame Temperature: Curr not available</li> <li>Stoichometric Air to Fuel Ratio: Not pertinent</li> <li>Flame Temperature: Currently not available</li> <li>Sombustion Molar Ratio (Reactant Product): Not pertinent</li> </ol>	8.3 49 CFR Package Group: Not listed.     8.4 Marine Pollutant: No     8.5 NFPA Hazard Classification: Not listed     8.6 EPA Reportable Quantity: Not listed.     8.7 EPA Pollution Category: Not listed.     8.8 RCRA Waste Number: Not listed     8.9 EPA FWPCA List: Not listed     9. PHYSICAL & CHEMICAL PROPERTIES     9.4 Burging Etch at 15 C and 4 atmultimid
Water Pollution Notify d	Water     HARMFUL TO AQUATIC LIFE IN LOW CONCENTRATIONS.       Pollution     Harmful if it enters local water intakes.       Notify local health and wildlife officials.     Notify operators of local water intakes.			4.14 Minimum Oxygen Concentration fo Combustion (MOCC): Not listed     5. CHEMICAL REACTIVITY     5.1 Reactivity with Water: No reaction     5.2 Reactivity with Common Materials:	9.1 Water solution)         9.2 Molecular Weight: 712.95         9.3 Boiling Point at 1 atm: 212°F = 100°C = 373°K (approximate, varies with concentration)         No         9.4 Freezing Point: 32°F = 0°C = 273°K
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Dilute and disperse       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: 43; Misc. Wat Solutions;       2.1 CG Compatibility Group: 43; Misc. Wat Solutions;         2.2 Formula: (Na <sup>3</sup> ); [Ct-HacGH4(SOs)]>O in H       2.3 IMO/UN Designation: Not Listed         2.4 DOT ID No:: Not Listed       2.5 CAS Registry No:: 25167-32-2         2.6 NAERG Guide No:: Not listed       2.7 Standard Industrial Trade Classification			SIGNATIONS Sup: 43; Misc. Water scGrHs(SO)]20 in H2O Not Listed di 5167-32-2 to listed frade Classification:	reaction 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Flush with water, rinse wit dilute sodium bicarbonate or soda as solution. 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertii 6. WATER POLLUTION	(approximate, varies with concentration) 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 1.161 at 25°C 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Currently not available
<ol> <li>3. HEALTH HAZARDS</li> <li>3.1 Personal Protective Equipment: Goggles, rubber gloves, approved mist respirator, protective clothing.</li> <li>3.2 Symptoms Following Exposure: EYES AND SKIN: The solution is corrosive and may cause irreversible damage to eyes and skin. INGESTION: Irritation of the mouth, esophagus, and stomach. Diarrhea, intestinal distention, and occasional vorniting.</li> <li>3.3 Treatment of Exposure: Call a physician. EYES AND SKIN: Flush eyes and skin with plenty of water for at least 30 minutes. Remove contaminated clothing and shoes. INGESTION: Give fluids and induce vomiting.</li> <li>3.4 TLV-TWA: Not listed.</li> <li>3.5 TLV-STEL: Not listed.</li> <li>3.6 Toxicity by Ingestion: Grade 2; LD<sub>50</sub> = 700 mg/kg (rat)</li> <li>3.8 Toxicity by Inhalation: Currently not available.</li> </ol>			tor, protective d may cause sophagus, and n with plenty of water ON: Give fluids and	Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential Currently not available 6.5 GESAMP Hazard Profile: Not listed	Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Currently not available 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available
<ul> <li>3.10 Vapor (Gas) Irritant Ch.</li> <li>3.11 Liquid or Solid Characturid or Solid Characturid Solid Characturid Value: Not Issted.</li> <li>3.12 Odor Threshold: Currer 3.13 IDLH Value: Not Issted.</li> <li>3.14 OSHA PEL-TWA: Not Ii:</li> <li>3.15 OSHA PEL-Ceiling: Not 3.17 EPA AEGL: Not listed</li> </ul>	aracteristics: Currently n teristics: Fairly severe sk nutes contact. ntly not available sted. sted. listed.	ot available in irritant. May cause pain and	d second-degree		NOTES

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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
	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 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		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 N O T A V A I L A B L E		C UR RENTLY NOT AVAILABLE		C URRENTLY NOT AVAILABLE