## DODECYLBENZENESULFONIC ACID

(	CAUTION	ARY RESPO	NSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Conoco SA 597 Laurylbenzenesulfonic acid Nacconol 988 A Keep people away. Avoid contact with liquid		Liquid Mixes with water. contact with liquid.	Light yellow to brown Possible odor of SO#M2 r.		<ul> <li>4.1 Flash Point: 300°F O.C.</li> <li>4.2 Flammable Limits in Air: Currently not available</li> <li>4.3 Fire Extinguishing Agents: Water (Fog Nozzle), CO<sub>2</sub>, dry powder</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Currently not available</li> </ul>	7.1 Grades of Purity: 95% to 97.5% 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open 7.5 IMO Pollution Category: Currently not available		
Avoid inhala Wear goggl Notify local Protect wat	ation. es, self-contai health and poll er intakes.	ned breathing appara ution control agencie	tus, and rubber overclothing (including glo s.	ives).	4.5 Special Hazards of Combustion Products: May give off SO <sub>3</sub> , SO <sub>2</sub> and H <sub>2</sub> S	7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS		
Fire	Fire         Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Extinguish with water (fog nozzle), carbon dioxide, or dry powder.           Exposure         CALL FOR MEDICAL AID. LIQUID Will burn skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush exposed areas with plenty of water.				<ol> <li>4.6 Behavior in Fire: Currently not available</li> <li>4.7 Auto Ignition Temperature: Currently not available</li> <li>4.8 Electrical Hazards: Currently not available</li> </ol>	8.1 49 CFR Category: Corrosive material 8.2 49 CFR Class: 8 8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No		
Exposure					4.9 Burning Kate: Currently not available     4.10 Adiabatic Flame Temperature: Currently     not available     4.11 Stoichometric Air to Fuel Ratio: 119.0     (calc.)     4.12 Flame Temperature: Currently not     available	8.5 NFPA Hazard Classification: Not listed     8.6 EPA Reportable Quantity: 1000 pounds     8.7 EPA Pollution Category: C     8.8 RCRA Waste Number: Not listed     8.9 EPA FWPCA List: Yes     9. DHYSICAL & CHEMICAL PROPERTIES		
	IF IN EYES, IF SWALLO and induce v	hold eyelids open an NED and victim is CC omiting.	d flush with plenty of water. DNSCIOUS, have victim drink water or mil	lk	4.13 Combustion Molar Ratio (Reactant to Product): 34.0 (calc.)     4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 316 average		
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.				5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction	<ul> <li>9.3 Boiling Point at 1 atm: &gt;440°F = &gt;204.5°C = &gt;477.7°K</li> <li>9.4 Freezing Point: Currently not available</li> <li>9.5 Critical Temperature: Currently not available</li> </ul>		
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge		ACTIONS	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: CuHusSOn 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: 2584 2.5 CAS Registry No.: 27176-87-0 2.6 NAERG Guide No.: 153 2.7 Standard Industrial Trade Classification: 51377		<ul> <li>5.2 Reactivity with Common Materials: Do not store in carbon steel or aluminum.</li> <li>5.3 Stability During Transport: Stable</li> <li>5.4 Neutralizing Agents for Acids and Caustics: Flush with water, rinse with dilute sodium bicarbonate or soda ash solution</li> <li>5.5 Polymerization: Currently not available</li> <li>5.6 Inhibitor of Polymerization: Currently not available</li> </ul>	<ul> <li>9.5 Critical Temperature: Currently not available</li> <li>9.6 Critical Pressure: Currently not available</li> <li>9.7 Specific Gravity: 1 at 25°C</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: Currently not available</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</li> </ul>		
<ul> <li>3.1 Personal Prote unventilatec</li> <li>3.2 Symptoms Foll significant in and skin. IN distention a</li> <li>3.3 Treatment of E for at least</li> <li>4 TLV-TWX: Not 1</li> <li>3.5 TLV-STEL: Not</li> <li>3.6 TLV-Ceiling: No</li> <li>3.7 Toxicity by Inge</li> <li>3.8 Toxicity by Inge</li> <li>3.9 Chronic Toxicit construction</li> <li>3.10 Vapor (Gas) Irr</li> <li>3.11 Liquid or Solid burns after :</li> <li>3.12 Odor Threshol</li> <li>3.13 IDLH Value: No</li> <li>3.14 OSH A FEL-TW</li> </ul>	ctive Equipm. I area. owing Expose owing Expose VGESTION: In nd occasional xposure: Call 15 minutes. Re ng. See physi isted. Iisted. Iisted. Iisted. Sestion: Grade Ialation: Currer y: Affected se Ialation: Currer Alation: Currer y: Affected se Ialation: Currer Affected se Ialation: Currer Ialation: Currer Affected se Ialation: Currer Ialation: Currer Ia	<ol> <li>HEALTH H, ant: Goggles, rubber</li> <li>are: EYES AND SKIN echnical grade is cor itation of the mouth, vomiting.</li> <li>a physician. EYES A move contaminated cian.</li> <li>LD<sub>50</sub> = 50 to 500 n</li> <li>ty not available.</li> <li>the penetration of care persistics: Currently no cs: Fairly severe ski contact.</li> <li>ected odor of water.</li> </ol>	AZARDS gloves, air pack for contact with fumes in & A 0.5% to 1% concentration in water c rosive and may cause irreversible damag esophagus and stomach. Diarrhea, intes NND SKIN: Flush eyes and skin with plent clothing and shoes. INGESTION: Give flu mg/kg (mouse). ctrolytes. Decrease in fetal body weight, inogens into gastric mucosa. t available n irritant. May cause pain and second-de	6. WATER POLLUTION         6. WATER POLLUTION         9.12 Latent Heat of Vaporization: Currently navailable         1 in water caused ible damage to eyes trea, intestinal         1 in water caused ible damage to eyes trea, intestinal         0.1 Sport/Qupy/lethal concentration n with plenty of water DN: Give fluids and         0.2 Waterfoul Toxicity: DN: Give fluids and         0.3 Biological Oxygen Demand (BOD): Currently not available         0.4 Sport Chain Concentration 0.05 provide for thing rate of common muscel 5 pom reduced fertilized eggs of fish 6.2 Waterfoul Toxicity: Currently not available         0.3 Biological Oxygen Demand (BOD): Currently not available         0.4 Food Chain Concentration Potential: None         0.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: 1 Human Contact hazard: 1 Reduction of amenities: X         NOTES				
3.15 OSHA PEL-STI 3.16 OSHA PEL-CE 3.17 EPA AEGL: No	EL: Not listed. ling: Not listed t listed	L						

## DODECYLBENZENESULFONIC ACID

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
75 80 85 90 105 110 115 120 125 130 135 140 145 150 155	67.238 67.052 66.879 66.714 66.558 66.412 66.471 66.138 66.009 65.886 65.770 65.549 65.443 65.344 65.344 65.245 65.151		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVA-LABLE	70 75 80 85 90 95 100 105 115 125 130 135 140	1056.765 877.728 737.813 626.767 537.423 464.663 404.764 354.969 313.207 277.900 247.832 222.053 199.816 180.521 163.693

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
	S O L U B L E		V E R Y L OW		N OT P E R TT I N E N T		CORRENT NOT ANALAS