DODECANOL

CAUTIONARY RESPONSE INFORMATION						
Common Synonyms Dodecyl alcohol Lauryl alcohol		Thick liquid	Colorless	Sweet odor		
Floats on water. Freezing point is 75°F. Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies.						
Fire	Extinguish w Water may	Combustible. Extinguish with dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin. Will burn eyes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.					
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notity local health and wildlife officials. Notify operators of nearby water intakes.					

1.	CORRECTIVE RESPONSE ACTIONS
	Cton discharge

Stop discharge Contain Collection Systems: Skim Clean shore line Salvage waterfowl

2. CHEMICAL DESIGNATIONS

- CG Compatibility Group: 20; Alcohols,
- glycols
 Formula: CH₃(CH₂)₁₀CH₂OH
 IMO/UN Designation: Not listed
 DOT ID No.: Not listed

- CAS Registry No.: 112-53-8 NAERG Guide No.: Not listed Standard Industrial Trade Classification: 51229

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Chemical gloves; chemical goggles
- 3.2 Symptoms Following Exposure: Liquid will cause burning of the eyes and may irritate skin.
- 3.3 Treatment of Exposure: SKIN OR EYES: wash exposed areas with water.
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 1; LD50 = 5 5 to 15 g/kg (humans)
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Currently not available
 3.10 Vapor (Gas) Irritant Characteristics: None
- 3.11 Liquid or Solid Characteristics: No appreciable hazard. Practically harmless to the skin. 3.12 Odor Threshold: Currently not available
- 3.13 IDLH Value: Not listed.
 3.14 OSHA PEL-TWA: Not listed.
- 3.15 OSHA PEL-STEL: Not listed.
- 3.16 OSHA PEL-Ceiling: Not listed
- 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

- 4.1 Flash Point: 260°F C.C.
- **4.2 Flammable Limits in Air:** Currently not available
- **4.3 Fire Extinguishing Agents:** Alcohol foam, carbon dioxide, dry chemical
- **4.4 Fire Extinguishing Agents Not to Be Used:** Water or foam may cause frothing.
- 4.5 Special Hazards of Combustion Products: Not pertinent
- 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: 527°F
- 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: 85.7 (calc.)
- 4.12 Flame Temperature: Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 25.0 (calc.)
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction
- 5.2 Reactivity with Common Materials: No reaction
- 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

6. WATER POLLUTION

- 6.1 Aquatic Toxicity: Currently not available
- 6.2 Waterfowl Toxicity: Currently not
- 6.3 Biological Oxygen Demand (BOD): 30% (theor.), 5 days
- 6.4 Food Chain Concentration Potential:
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 98.5-99.5%
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: B
- 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 NFPA Hazard Classification:

Category Classifi	cation
Category Classifi Health Hazard (Blue)	0
Flammability (Red)	1
Instability (Yellow)	0

- 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**

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 186.33
- 9.3 Boiling Point at 1 atm: 498°F = 259°C = 532KK
- 9.4 Freezing Point: 75°F = 24°C = 297°K
- 9.5 Critical Temperature: 762.8°F = 406°C =
- 9.6 Critical Pressure: 280 psia = 19 atm = 1.9 MN/m
- 9.7 Specific Gravity: 0.831 at 24°C (liquid)
- 9.8 Liquid Surface Tension: 27.4 dynes/cm = 0.0274 N/m at 25°C
- 9.9 Liquid Water Interfacial Tension: (est.) 30 dvnes/cm = 0.03 N/m at 30°C
- 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas):
- **9.12 Latent Heat of Vaporization:** (est.) 110 Btu/lb = 62 cal/g = 2.6 X 10⁵ J/kg
- 9.13 Heat of Combustion: (est.) -18,000 Btu/lb $= -10,000 \text{ cal/g} = -420 \text{ X } 10^5 \text{ J/kg}$
- 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Not pertinent
- 9.16 Heat of Polymerization: Not pertinent
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

NOTES

DODECANOL

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
80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180 185 190 195 200 205	51.740 51.610 51.470 51.340 51.070 50.930 50.800 50.660 50.520 50.320 50.250 50.120 49.980 49.850 49.710 49.580 49.310 49.440 49.310 49.470 48.500 48.500 48.500	85 90 95 100 105 110 115 120 125 130 135 140 145 150	0.606 0.612 0.618 0.625 0.637 0.643 0.649 0.655 0.661 0.667 0.673 0.680 0.686	90 95 100 105 115 120 125 130 135 140 145 155 160 165 170 175 180 195 200 205	1.005 1.003 1.000 0.997 0.994 0.991 0.986 0.983 0.988 0.975 0.975 0.972 0.969 0.967 0.964 0.961 0.958 0.953 0.950 0.947 0.944	86 88 90 92 94 96 98 100 102 104 108 110 1112 114 116 118	1.545 1.506 1.469 1.433 1.398 1.364 1.331 1.299 1.268 1.208 1.181 1.154 1.158 1.102 1.077 1.053 1.029

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
	I N S O L U B L E		N O T PERTINENT		NOT PERT-NEXT	0 25 50 75 100 125 125 250 225 250 350 375 400 425 450 525 550 575 600	0.333 0.347 0.361 0.375 0.389 0.403 0.416 0.430 0.443 0.456 0.469 0.482 0.495 0.507 0.519 0.532 0.544 0.556 0.567 0.579 0.590 0.601 0.613 0.624 0.634