ISODECYL ALCOHOL

	CAUTIONAR	Y RESPO	ONSE INFORMATION		4. FIRE HAZARDS			
Common Synonyms Liquid		uid ats on water.	Colorless Mild alcohol odor		 4.1 Flash Point: 220°F O.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Alcohol foar 			
Wear gogg Call fire de	e away. Avoid conta les and rubber overc	tact with liquid. clothing (includi			dry chemicals or carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothin 4.5 Special Hazards of Combustion Products: Not pertinent			
Fire	Combustible. Extinguish with dry Water may be inef		ohol foam, or carbon dioxide.		 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Currenth available 			
Exposure	CALL FOR MEDICAL AID. LIQUID Will burn skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.			ter	 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Cur not available 4.11 Stoichometric Air to Fuel Ratio: 71 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactan) 			
Water Pollution	Fouling to shoreline.				Product): 21.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed			
	Notity operators of	or nearby water	makes.		5. CHEMICAL REACTIVITY			
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl			2. CHEMICAL DESIG 90ycol 2.2 Formula: CorbcrOH 2.3 IMO/UN Designation: No 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: Curr 2.6 NAERG Guide No.: Not	e: 20; Alcohol, ot listed ently not available	 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 Causties: Not pertinent 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 			
3.8 Toxicity by Inh 3.9 Chronic Toxici 3.10 Vapor (Gas) Ir 3.11 Liquid or Solid exposure; r	listed. tr listed. estion: Currently not alation: Currently no triant Characteristics: C ray cause secondar di: Currently not ava ot listed. L: Not listed. EL: Not listed.	ot available. ailable ics: Vapors are Causes smartin iry burns on long	non-irritating to the eyes and thro g of the skin and first-degree burn g exposure.		Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed			

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Technical: mixed isomers
- 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

8.3 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

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 158.29
- **9.3 Boiling Point at 1 atm**: 428°F = 220°C = 493°K
- **9.4 Freezing Point:** $<140^{\circ}F = <60^{\circ}C = <333^{\circ}K$
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 0.841 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):
- (est.) 1.032 9.12 Latent Heat of Vaporization: (est.) 120 Btu/lb = 67 cal/g = 2.8 X 10^5 J/kg
- 9.13 Heat of Combustion: Currently not available
- 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

IOTES

ISODECYL ALCOHOL

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
34 36 38 40 42 44 46 48 50 52 54 56 58 58 60 62 64 66 68 60 62 72 74 74 76 78 80 82 84	53.680 53.610 53.540 53.540 53.3400 53.300 53.280 53.190 53.190 53.190 52.2910 52.2910 52.2910 52.2700 52.770 52.770 52.2700 52.2300 52.2300 52.2300 52.2300 52.2300 52.2300 52.2300 52.240 52.	85 90 95 100 105 110 120 125 130 135 140 145 150	0.555 0.561 0.573 0.579 0.584 0.590 0.690 0.608 0.614 0.620 0.620 0.632	50 51 52 53 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	1.040 1.040	50 51 52 53 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	9.343 9.088 8.841 8.602 8.370 8.145 7.927 7.716 7.511 7.312 7.119 6.932 6.751 6.575 6.404 6.239 6.078 5.922 5.770 5.623 5.481 5.342 5.207 5.077 5.077 5.077 5.077 5.077 5.077

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
68	0.010	220 230 240 260 270 280 300 310 320 330 340 350 360 370 380 390 400	0.204 0.271 0.357 0.467 0.606 0.781 1.000 1.272 1.607 2.018 2.528 3.863 4.746 5.801 7.056 8.543 10.300 12.360	220 230 240 260 270 280 300 310 320 330 340 350 360 370 380 390 400	0.00443 0.00579 0.00753 0.01971 0.01242 0.01579 0.01994 0.02502 0.03119 0.03867 0.04766 0.05842 0.07124 0.00643 0.10440 0.15000 0.17870 0.21190	100 120 140 160 280 220 240 260 280 300 320 340 360 380 400 420 440 460 480 520 540 560 580 600	0.416 0.426 0.436 0.445 0.455 0.464 0.473 0.482 0.499 0.507 0.516 0.524 0.531 0.531 0.539 0.561 0.564 0.568 0.575 0.581 0.588 0.594 0.600 0.612