

# DIISOBUTYLCARBINOL

DBC

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> 2,6-Dimethyl-4-heptanol		Oily liquid	Colorless
Floats on water.			
Call fire department. Notify local health and pollution control agencies. Protect water intakes.			
<b>Fire</b>	Combustible. Extinguish with dry chemical, alcohol foam, or carbon dioxide. Cool exposed containers with water.		
<b>Exposure</b>	CALL FOR MEDICAL AID.  LIQUID Harmful if swallowed. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.		
<b>Water Pollution</b>	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

<p><b>1. CORRECTIVE RESPONSE ACTIONS</b> Stop discharge Contain Collection Systems: Skim Salvage waterfowl</p>	<p><b>2. CHEMICAL DESIGNATIONS</b> 2.1 <b>CG Compatibility Group:</b> 20; Alcohols, glycols 2.2 <b>Formula:</b> [(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>]<sub>2</sub>CHOH 2.3 <b>IMO/UN Designation:</b> Not listed 2.4 <b>DOT ID No.:</b> Not listed 2.5 <b>CAS Registry No.:</b> 108-82-7 2.6 <b>NAERG Guide No.:</b> Not listed 2.7 <b>Standard Industrial Trade Classification:</b> 51219</p>
<p><b>3. HEALTH HAZARDS</b> 3.1 <b>Personal Protective Equipment:</b> Air-supplied mask for prolonged exposure; plastic gloves; goggles. 3.2 <b>Symptoms Following Exposure:</b> None expected 3.3 <b>Treatment of Exposure: SKIN AND EYES:</b> Flush with water 3.4 <b>TLV-TWA:</b> Not listed. 3.5 <b>TLV-STEL:</b> Not listed. 3.6 <b>TLV-Ceiling:</b> Not listed. 3.7 <b>Toxicity by Ingestion:</b> Grade 2; LD<sub>50</sub> = 0.5 to 5 g/kg (rat) 3.8 <b>Toxicity by Inhalation:</b> Currently not available. 3.9 <b>Chronic Toxicity:</b> Currently not available 3.10 <b>Vapor (Gas) Irritant Characteristics:</b> None 3.11 <b>Liquid or Solid Characteristics:</b> None 3.12 <b>Odor Threshold:</b> Currently not available 3.13 <b>IDLH Value:</b> Not listed. 3.14 <b>OSHA PEL-TWA:</b> Not listed. 3.15 <b>OSHA PEL-STEL:</b> Not listed. 3.16 <b>OSHA PEL-Ceiling:</b> Not listed. 3.17 <b>EPA AEGL:</b> Not listed</p>	

<p><b>4. FIRE HAZARDS</b> 4.1 <b>Flash Point:</b> 162°F O.C. 165°F C.C. 4.2 <b>Flammable Limits in Air:</b> 0.8%-6.1% 4.3 <b>Fire Extinguishing Agents:</b> Carbon dioxide, dry chemical, alcohol foam 4.4 <b>Fire Extinguishing Agents Not to Be Used:</b> Not pertinent 4.5 <b>Special Hazards of Combustion Products:</b> Not pertinent 4.6 <b>Behavior in Fire:</b> Not pertinent 4.7 <b>Auto Ignition Temperature:</b> 494°F (calc.) 4.8 <b>Electrical Hazards:</b> Not pertinent 4.9 <b>Burning Rate:</b> Currently not available 4.10 <b>Adiabatic Flame Temperature:</b> Currently not available 4.11 <b>Stoichiometric Air to Fuel Ratio:</b> 64.3 (calc.) 4.12 <b>Flame Temperature:</b> Currently not available 4.13 <b>Combustion Molar Ratio (Reactant to Product):</b> 19.0 (calc.) 4.14 <b>Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>7. SHIPPING INFORMATION</b> 7.1 <b>Grades of Purity:</b> 98.0% 7.2 <b>Storage Temperature:</b> Ambient 7.3 <b>Inert Atmosphere:</b> No requirement 7.4 <b>Venting:</b> Open (flame arrester) 7.5 <b>IMO Pollution Category:</b> C 7.6 <b>Ship Type:</b> 3 7.7 <b>Barge Hull Type:</b> Currently not available</p>								
<p><b>5. CHEMICAL REACTIVITY</b> 5.1 <b>Reactivity with Water:</b> No reaction 5.2 <b>Reactivity with Common Materials:</b> No reaction 5.3 <b>Stability During Transport:</b> Stable 5.4 <b>Neutralizing Agents for Acids and Caustics:</b> Not pertinent 5.5 <b>Polymerization:</b> Not pertinent 5.6 <b>Inhibitor of Polymerization:</b> Not pertinent</p>	<p><b>8. HAZARD CLASSIFICATIONS</b> 8.1 <b>49 CFR Category:</b> Not listed 8.2 <b>49 CFR Class:</b> Not pertinent 8.3 <b>49 CFR Package Group:</b> Not listed. 8.4 <b>Marine Pollutant:</b> No 8.5 <b>NFPA Hazard Classification:</b>  <table border="1"> <tr> <td>Category</td> <td>Classification</td> </tr> <tr> <td>Health Hazard (Blue).....</td> <td>1</td> </tr> <tr> <td>Flammability (Red).....</td> <td>2</td> </tr> <tr> <td>Instability (Yellow).....</td> <td>0</td> </tr> </table> 8.6 <b>EPA Reportable Quantity:</b> Not listed. 8.7 <b>EPA Pollution Category:</b> Not listed. 8.8 <b>RCRA Waste Number:</b> Not listed 8.9 <b>EPA FWPCA List:</b> Not listed</p>	Category	Classification	Health Hazard (Blue).....	1	Flammability (Red).....	2	Instability (Yellow).....	0
Category	Classification								
Health Hazard (Blue).....	1								
Flammability (Red).....	2								
Instability (Yellow).....	0								
<p><b>6. WATER POLLUTION</b> 6.1 <b>Aquatic Toxicity:</b> Currently not available 6.2 <b>Waterfowl Toxicity:</b> Currently not available 6.3 <b>Biological Oxygen Demand (BOD):</b> Currently not available 6.4 <b>Food Chain Concentration Potential:</b> None 6.5 <b>GESAMP Hazard Profile:</b> Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: - Human Contact hazard: - Reduction of amenities: 0</p>	<p><b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b> 9.1 <b>Physical State at 15° C and 1 atm:</b> Liquid 9.2 <b>Molecular Weight:</b> 144.26 9.3 <b>Boiling Point at 1 atm:</b> 352°F = 178°C = 451°K 9.4 <b>Freezing Point:</b> -85°F = -65°C = 208°K 9.5 <b>Critical Temperature:</b> Not pertinent 9.6 <b>Critical Pressure:</b> Not pertinent 9.7 <b>Specific Gravity:</b> 0.812 at 20°C (liquid) 9.8 <b>Liquid Surface Tension:</b> Currently not available 9.9 <b>Liquid Water Interfacial Tension:</b> Currently not available 9.10 <b>Vapor (Gas) Specific Gravity:</b> Not pertinent 9.11 <b>Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent 9.12 <b>Latent Heat of Vaporization:</b> 140 Btu/lb = 76 cal/g = 3.2 X 10<sup>5</sup> J/kg 9.13 <b>Heat of Combustion:</b> (est.) -17,400 Btu/lb = -9,680 cal/g = -405 X 10<sup>5</sup> J/kg 9.14 <b>Heat of Decomposition:</b> Not pertinent 9.15 <b>Heat of Solution:</b> Not pertinent 9.16 <b>Heat of Polymerization:</b> Not pertinent 9.17 <b>Heat of Fusion:</b> Currently not available 9.18 <b>Limiting Value:</b> Currently not available 9.19 <b>Reid Vapor Pressure:</b> 0.06 psia</p>								
<p>NOTES</p>									

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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
52	51.240	85	0.644	32	1.179	68	14.300
54	51.170	90	0.649	34	1.179		
56	51.100	95	0.653	36	1.179		
58	51.030	100	0.657	38	1.179		
60	50.960	105	0.661	40	1.179		
62	50.900	110	0.666	42	1.179		
64	50.830	115	0.670	44	1.179		
66	50.760	120	0.674	46	1.179		
68	50.690	125	0.679	48	1.179		
70	50.620	130	0.683	50	1.179		
72	50.550	135	0.687	52	1.179		
74	50.480	140	0.692	54	1.179		
76	50.410	145	0.696	56	1.179		
78	50.340	150	0.700	58	1.179		
80	50.270			60	1.179		
82	50.200			62	1.179		
84	50.130			64	1.179		
86	50.060			66	1.179		
				68	1.179		
				70	1.179		
				72	1.179		
				74	1.179		
				76	1.179		

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	0.060	90	0.041	90	0.00101		N
		100	0.057	100	0.00137		O
		110	0.078	110	0.00184		T
		120	0.106	120	0.00245		
		130	0.142	130	0.00323		P
		140	0.188	140	0.00422		E
		150	0.247	150	0.00545		R
		160	0.322	160	0.00699		T
		170	0.416	170	0.00888		I
		180	0.533	180	0.01120		N
		190	0.678	190	0.01403		E
		200	0.856	200	0.01745		N
		210	1.074	210	0.02155		T
		220	1.337	220	0.02644		
		230	1.655	230	0.03225		
		240	2.036	240	0.03911		
		250	2.490	250	0.04715		
		260	3.028	260	0.05655		
		270	3.663	270	0.06746		
		280	4.408	280	0.08008		
		290	5.278	290	0.09462		
		300	6.291	300	0.11130		
		310	7.463	310	0.13030		
		320	8.815	320	0.15190		
		330	10.370	330	0.17650		
		340	12.150	340	0.20410		