DIISOBUTYLENE

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4. FIRE HAZARDS 4.1 Flash Point: 35 ⁹ F (est.)	 SHIPPING INFORMATION Grades of Purity: Research grade: 99.86%; Pure grade: 99.39%; Technical grade: 98.7
4.2 Flammable Limits in Air: 0.9% LEL (est.) 4.3 Fire Extinguishing Agents: Dry	7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement
chemicals, foam, or carbon dioxide 4.4 Fire Extinguishing Agents Not to Be	7.4 Venting: Open (flame arrester) or pressure- vacuum
Used: Water may be ineffective 4.5 Special Hazards of Combustion	7.5 IMO Pollution Category: B 7.6 Shin Type: 3
4.6 Behavior in Fire: Not pertinent	7.7 Barge Hull Type: Currently not available
4.7 Auto Ignition Temperature: 788°F 4.8 Electrical Hazards: Not pertinent	8. HAZARD CLASSIFICATIONS
4.9 Burning Rate: 7.9 mm/min. 4.10 Adiabatic Flame Temperature: Currently	8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3
4.11 Stoichometric Air to Fuel Ratio: 57.1	8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No
4.12 Flame Temperature: Currently not available	8.5 NFPA Hazard Classification:
4.13 Combustion Molar Ratio (Reactant to Product): 16.0 (calc.)	Health Hazard (Blue)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	Instability (Yellow)
5. CHEMICAL REACTIVITY	8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed.
5.1 Reactivity with Water: No reaction	8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed
5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable	9. PHYSICAL & CHEMICAL PROPERTIES
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	9.1 Physical State at 15° C and 1 atm: Liquid
5.6 Inhibitor of Polymerization: Not pertinent	9.2 Molecular Weight: 112.22 9.3 Boiling Point at 1 atm: 214.7°F = 101.5°C =
6. WATER POLLUTION	374.7°K 9.4 Freezing Point: −136.3°F = −93.5°C =
6.1 Aquatic Toxicity: Currently not available	179.7°K 9.5 Critical Temperature: 548.1°F = 286.7°C =
6.2 Waterfowl Toxicity: Currently not available	559.9°K 9.6 Critical Pressure: 380 psia = 25.85 atm =
6.3 Biological Oxygen Demand (BOD): Currently not available	2.619 MN/m ² 9.7 Specific Gravity: 0.715 at 20°C (liquid)
6.4 Food Chain Concentration Potential: None	9.8 Liquid Surface Tension: 20.7 dynes/cm = 0.0207 N/m at 20°C
6.5 GESAMP Hazard Profile: Not listed	9.9 Liquid Water Interfacial Tension: Currently not available
	9.10 Vapor (Gas) Specific Gravity: Not pertinen 9.11 Ratio of Specific Heats of Vapor (Gas): (est.) 1.049
	9.12 Latent Heat of Vaporization: 110 Btu/lb = 60 cal/g = 2.5 X 10 ⁵ J/kg
	9.13 Heat of Combustion: -18,900 Btu/lb = -10,500 cal/g = -440 X 10 ⁵ 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: 1.6 psia
NOTE	S

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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 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 84 88 90 92 94 96 98 100 102	45.100 45.050 44.930 44.870 44.870 44.870 44.630 44.630 44.630 44.570 44.510 44.460 44.400 44.340 44.280 44.280 44.280 44.160 44.100 44.040 43.980 43.980 43.980 43.950 43.630	32 34 36 38 40 42 44 46 48 50 52 54 56 62 64 66 68 70 72 74 76	0.478 0.478	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76	1.040 1.040		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
	- Х % О Г О В Г Ш	15 20 25 30 35 40 45 50 55 60 65 70 70 75 80 85 90 95 100	0.125 0.148 0.176 0.207 0.244 0.286 0.335 0.390 0.454 0.526 0.607 0.607 0.607 0.805 0.922 1.055 1.203 1.369 1.555	15 20 25 30 35 40 45 50 55 60 65 70 70 75 80 85 90 95 100	0.00275 0.00323 0.00379 0.00443 0.00599 0.00694 0.00801 0.00921 0.01058 0.01210 0.01382 0.01573 0.01787 0.02285 0.02289 0.02581 0.02905	100 120 140 160 200 220 240 260 280 300 320 340 360 380 400 420 440	0.399 0.412 0.424 0.436 0.447 0.459 0.470 0.481 0.492 0.503 0.513 0.513 0.524 0.534 0.554 0.554 0.564 0.564