DIETHYLENE GLYCOL MONOMETHYL ETHER

	CAUTIONARY RESPO	NSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Liquid Colori Diethylene glycol methyl ether Dowanol DM 2-(2-Methoxyethoxy)-ethanol Methyl carbitol Poly-solv DM Liquid Colori Call fire department. Avoid contact with liquid. Nutify local health and nollition control agencies Sector Sector		Colorless Pleasant odor th water.	 4.1 Flash Point: 200°F O.C. 4.2 Flammable Limits in Air: LFL = 1.2% 4.3 Fire Extinguishing Agents: Water, carbon dioxide, or dry chemical 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Currently not 	7.1 Grades of Purity: Commercial 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: D 7.6 Ship Type: Data not available 7.7 Barge Hull Type: Currently not available		
Fire Combustible. Extinguish with dry chemical, water, or carbon dioxide.			available 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available	8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Parkage Group: Not listed		
Exposure Water	Cool exposed containers with wat CALL FOR MEDICAL AID. LIQUID Irritating to eyes. Harmful if swallowed. IF IN EYES, hold eyelids open an IF SWALLOWED and victim is CO or milk. Effect of low concentrations on ac	er. d flush with plenty of water. DNSCIOUS, have victim drink water quatic life is unknown.	 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 30.9 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 11.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 	8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue) 1 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		
Pollution	May be dangerous if it enters wat Notify local health and wildlife offic Notify operators of nearby water i	er intakes. cials. ntakes.	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No	8.9 EPA FWPCA List: Not listed 9. PHYSICAL & CHEMICAL		
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 40; Glycol ether 2.2 Formula: CHAOCH-CH-CH-CH-CH-OH 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 111-77-3 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51616	S.3 Stability During Transport: Stable S.4 Neutralizing Agents for Acids and Caustics: Not pertinent S.5 Polymerization: Not pertinent S.6 Inhibitor of Polymerization: Not pertinent G. WATER POLLUTION 6.1 Aquatic Toxicity: Currently act agailable	PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 120.15 9.3 Boiling Point at 1 atm: 381°F = 194°C = 467°K 9.4 Freezing Point: -120°F = -85°C = 188°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.025 at 20°C (liquid)		
 3.1 Personal Prote 3.2 Symptoms Fol 3.3 Treatment of E 3.4 TLV-TWA: Not 3.5 TLV-STEL: Not 3.6 TLV-ceiling: N 3.7 Toxicity by Ing 3.8 Toxicity by Ing 3.8 Toxicity by Ing 3.8 Toxicity by Ing 3.10 Vapor (Gas) IT 3.11 Odor Thresho 3.13 IDLH Value: N 3.14 OSHA PEL-ST 3.16 OSHA PEL-CE 3.17 EPA AEGL: N 	ective Equipment: Safety goggles. Ilowing Exposure: Liquid may irritat Exposure: SKIN OR EYES: Flush w listed. t listed. jestion: Grade 2; LDze = 0.5 to 5 g/l alation: Currently not available irritant Characteristics: None d Characteristics: None	e eyes. ith water kg (guinea pig)	 6.3 Biological Oxygen Demand (BOD): 34% of theoretical in 5 days 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 1 Human Contact hazard: 1 Reduction of amenities: X 	 9.1 Liquid water interfacial rension: Not pertiment 9.10 Vapor (Gas) Specific Gravity: Not pertiment 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertiment 9.12 Latent Heat of Vaporization: 160 Btu/lb = 90 cal/g = 3.8 X 10⁵ J/kg 9.13 Heat of Combustion: -10,830 Btu/lb = -6020 cal/g = -252 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertiment 9.15 Heat of Polymerization: Not pertiment 9.16 Heat of Polymerization: Not pertiment 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: 0.01 psia 		

DIETHYLENE GLYCOL MONOMETHYL ETHER

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 86	64.540 64.469 64.400 64.330 64.259 64.190 64.120 64.049 63.980 63.910 63.840 63.770 63.640 63.570 63.430 63.570 63.360	85 90 95 100 105 115 120 125 130 135 140 145 150	0.518 0.521 0.524 0.529 0.535 0.535 0.538 0.541 0.541 0.544 0.549 0.552 0.554		NOT PERTINENT		N O T P E R T I N E N T

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
	M S C B L E	60 80 100 120 140 160 200 220 240 260 280 300 320 340 360 380	0.003 0.006 0.014 0.028 0.055 0.103 0.324 0.545 0.892 1.418 2.200 3.335 4.949 7.199 10.280 14.440	60 80 100 140 160 200 220 240 260 280 300 320 340 360 380	0.00006 0.00013 0.00027 0.00054 0.00103 0.00186 0.00550 0.00898 0.01426 0.02206 0.03330 0.04914 0.07104 0.10080 0.14040 0.19250		NOT PERTIZEZT