## **PROPYLENE GLYCOL METHYL ETHER**

	CAUTIONARY RESPO	ONSE INFORMATION	4. FIRE HAZARDS 7. S
Common Synonyms         Liquid         Colorless         Mild odor           Dowanol 938         Dowanol 94M         Mixes with water. Irritating vapor is produced.         Mixes with water. Irritating vapor is produced.           Call fire department.         Call fire department.         Colorless         Mixes with water.			4.1 Flash Fold. 30 FOC.     7.1 Grades     4.2 Flasmable Limits in Air: 1.6 - 13.8%     4.3 Fire Extinguishing Agents: Alcohol foam, dry chemical, or carbon dioxide     4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective.     7.5 IMO Pc     7.5 IMO Pc     7.5 IMO Pc     7.5 IMO Pc
Avoid cont Notify loca Protect wa	act with vapor. I health and pollution control agenci ater intakes.	es.	4.5 Special Hazards of Combustion 7.0 Ship 1 Products: Not pertinent 7.7 Barge I 4.6 Behavior in Fire: Not pertinent
Fire	FLAMMABLE Flashback along vapor trail may Vapor may explode if ignited in a Extinguish with dry chemical, alc Water may be ineffective on fire Cool exposed containers with wa CALL FOR MEDICAL AID.	occur. n enclosed area. ohol foam, or carbon dioxide. ter.	4.7 Auto Ignition Temperature: Currently not available       8. H.         4.8 Electrical Hazards: Not pertinent       8.1 49 CFR         4.9 Burning Rate: Currently not available       8.2 49 CFR         4.10 Adiabatic Flame Temperature: Currently not available       8.3 49 CFR         4.11 Stoichometric Air to Fuel Ratio: 26.2 (calc.)       8.5 NFPAH
	VAPOR Irritating to eyes, nose, and throw Move to fresh air. LIQUID Irritating to skin and eyes. Remove contaminated clothing a Flush affected areas with plenty IF IN EYES, hold eyelids open a	at. Ind shoes. of water. nd flush with plenty of water.	4.12 Flame Temperature: Currently not available       Healti Flamm         4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.)       Healti Flamm         4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed       8.6 EPA Re         5. CHEMICAL REACTIVITY       8.9 EPA Fi
Water Pollution	Effect of low concentrations on a May be dangerous if it enters wa Notify local health and wildlife oft Notify operators of nearby water	aquatic life is unknown. ter intakes. Ticials. intakes.	S. 1 Reactivity with Common Materials: No reaction     S.2 Reactivity with Common Materials: No reaction     S.3 Stability During Transport: Stable     S.4 Neutralizing Agents for Acids and S.2 Molecu     Caustics: Not pertinent     S.2 Molecu
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: CH:CH(OH)CH:OCHs 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: 3092 2.5 CAS Registry No.: 107-98-2 2.6 NAERG Guide No.: 129 2.7 Standard Industrial Trade Classification: 51616	5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6. WATER POLLUTION 5.6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 9.9 Liquid 0.9 Liquid 9.9 Liquid 9.9 Liquid 9.9 Liquid
<ol> <li>Personal Proti</li> <li>Symptoms Fol</li> <li>Treatment of I</li> <li>contaminal</li> <li>TLV-STEL: NO</li> <li>T.V-STEL: NO</li> <li>Toxicity by Inh</li> <li>Troxicity by Inh</li> <li>Chronic Toxic</li> <li>10 Vapor (Gas) Inhibit or Colling:</li> <li>11 Liquid or Soli</li> <li>Cause smail</li> <li>12 Odor Thresho</li> <li>31 DLH Value: N</li> <li>A DEFL</li> </ol>	3. HEALTH H ective Equipment: Safety goggles Exposure: Evaluation in the exposure: Evaluation in the exposure: Evaluation in the evaluation in the evaluation in the evaluation is the evaluation in the evaluation is the evaluation in the evaluation is and reducing in the evaluation is and reducing of the skin. I do a constraint on the evaluation is the evaluation is the evaluation in the evaluation is and reducing of the skin. I do a constraint is the evaluation is the evaluation is the evaluation in the evaluation is the evaluation is the evaluation in the evaluation is the evaluation is the evaluation in the evaluation is the eval	IAZARDS , protective clothing. gyes and skin. for 15 min.; call a physician. SKIN: remove er. kg (rat) use moderate irritation, such that personnel will find temporary. d. If spilled on clothing and allowed to remain, may	6.4 Food Chain Concentration Potential: 9.10 Vapor None 9.11 Ratio 6.5 GESAMP Hazard Profile: Not listed 9.12 Laten Bulb 9.13 Heat = =-75 9.14 Heat c =-0.2 9.16 Heat c =-0.2 9.16 Heat c =-0.2 9.16 Heat c =-0.2 9.16 Heat c 9.17 Heat c 9.18 Limiti 9.19 Reid n availa
3.14 OSHA PEL-TI 3.15 OSHA PEL-TI 3.15 OSHA PEL-Ce 3.17 EPA AEGL: N	Ior Isted. MA: Not listed. FEL: Not listed. eiling: Not listed. lot listed		NOTES

- Purity: Technical
- emperature: Ambient
- sphere: No requirement
- Open (flame arrester)
- ion Category: D
- Data not avaialable
- Type: Currently not available

#### ARD CLASSIFICATIONS

- ategory: Flammable liquid
- lass: 3 ackage Group: III
- llutant: No

### ard Classification: gory Classification azard (Blue)......0

- y (Yellow)...... 0
- rtable Quantity: Not listed.
- tion Category: Not listed.
- ste Number: Not listed
- CA List: Not listed

#### **YSICAL & CHEMICAL** PROPERTIES

- state at 15° C and 1 atm: Liquid
- Weight: 90.12
- int at 1 atm: 250°F = 121°C =
- oint: Not pertinent
- mperature: 537.8°F = 281°C =
- essure: Not pertinent
- ravity: 0.924 at 20°C (liquid)
- face Tension: Not pertinent
- ter Interfacial Tension: Not
- as) Specific Gravity: Not pertinent Specific Heats of Vapor (Gas):
- eat of Vaporization: (est.) 166 02.3 cal/g = 3.86 X 10<sup>5</sup> J/kg
- **Combustion:** (est.) –13,600 Btu/lb cal/g = –317 X 10<sup>5</sup> J/kg
- ecomposition: Not pertinent
- **solution:** (est.) –9 Btu/lb = –5 cal/g 10<sup>5</sup> J/kg
- olymerization: Not pertinent
- usion: Currently not available
- Value: Currently not available
  - or Pressure: Currently not

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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
55 60 65 70 75 80 85 90 95 100 105 110 110 115 120 125 130 135 140	58.240 58.050 57.860 57.670 57.280 57.280 56.900 56.910 56.520 56.330 56.140 55.950 55.760 55.570 55.570 55.570 55.580 55.190 54.990		C U R R E N T L Y N O T A V A I L A B L E		N O T P E R T I N E N T		NOT PERTINENT

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	70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320	0.161 0.230 0.324 0.448 0.610 0.820 1.088 1.426 1.847 2.367 3.003 3.773 4.700 5.804 7.111 8.647 10.440 12.520 14.920 17.680 20.820 24.390 28.420 32.950 33.030 43.700	70 80 90 100 110 120 130 160 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320	0.00255 0.00358 0.00494 0.00672 0.00899 0.01188 0.01549 0.02543 0.03207 0.04004 0.04952 0.06073 0.07386 0.08914 0.12710 0.17650 0.20620 0.23950 0.227680 0.31820 0.31820 0.36420 0.41480 0.47050	0 25 50 75 100 125 150 275 200 225 250 275 300 275 300 325 350 375 400 425 450 525 550 575 600	0.324 0.336 0.347 0.358 0.369 0.379 0.390 0.400 0.410 0.420 0.430 0.440 0.449 0.449 0.458 0.468 0.468 0.468 0.477 0.485 0.494 0.503 0.511 0.519 0.527 0.535 0.543 0.551