

DIETHYLENE GLYCOL METHYL ETHER ACETATE

DGR

CAUTIONARY RESPONSE INFORMATION										
Common Synonyms Methyl carbitol acetate	Liquid	Colorless								
<p>Wear full impervious protective clothing and approved respirator.</p> <p>Shut off ignition sources and call fire department.</p> <p>Notify local health and pollution control agencies.</p> <p>Avoid contact with liquid and vapor.</p>										
Fire	<p>Combustible.</p> <p>Wear full protective clothing with self-contained breathing apparatus.</p> <p>Extinguish fire with dry chemical, alcohol foam, carbon dioxide. Use water spray to cool exposed containers.</p>									
Exposure	<p>CALL FOR MEDICAL AID.</p> <p>VAPOR Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>LIQUID Remove contaminated clothing and shoes. Wash affected areas with soap and water. IF IN EYES, hold eyelids open and flush with plenty of water.</p>									
Water Pollution	<p>Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>									
<p>4. FIRE HAZARDS</p> <p>4.1 Flash Point: 180°F O.C.</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Dry chemical, alcohol foam, or carbon dioxide.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Water.</p> <p>4.5 Special Hazards of Combustion Products: Irritating vapors and toxic gases, such as carbon dioxide and carbon monoxide, may be formed when involved in fire.</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Not listed.</p> <p>4.9 Burning Rate: Currently not available</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: 40.5 (calc.)</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): 14.0 (calc.)</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>										
<p>7. SHIPPING INFORMATION</p> <p>7.1 Grades of Purity: Technical grades.</p> <p>7.2 Storage Temperature: Ambient.</p> <p>7.3 Inert Atmosphere: No requirement.</p> <p>7.4 Venting: Not listed.</p> <p>7.5 IMO Pollution Category: D</p> <p>7.6 Ship Type: Data not available</p> <p>7.7 Bare Hull Type: Currently not available</p> <p>8. HAZARD CLASSIFICATIONS</p> <p>8.1 49 CFR Category: Not listed.</p> <p>8.2 49 CFR Class: Not pertinent.</p> <p>8.3 49 CFR Package Group: Not listed.</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification:</p> <table> <tr> <td style="text-align: right;">Category</td> <td style="text-align: right;">Classification</td> </tr> <tr> <td style="text-align: right;">Health Hazard (Blue).....</td> <td style="text-align: right;">0</td> </tr> <tr> <td style="text-align: right;">Flammability (Red).....</td> <td style="text-align: right;">2</td> </tr> <tr> <td style="text-align: right;">Instability (Yellow).....</td> <td style="text-align: right;">0</td> </tr> </table> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWP/CA List: Not listed</p> <p>9. PHYSICAL & CHEMICAL PROPERTIES</p>			Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	2	Instability (Yellow).....	0
Category	Classification									
Health Hazard (Blue).....	0									
Flammability (Red).....	2									
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1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 34; Esters 2.2 Formula: CH ₃ COOC(=O)HOC ₂ H ₅ OCH ₃ 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 629-38-9 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51616
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Full impervious protective clothing, including boots and gloves. Where splashing is possible wear full face shield or chemical safety goggles. Use approved respirator to protect against vapors.	
3.2 Symptoms Following Exposure: Exposure can cause irritation of eyes, nose and throat.	
3.3 Treatment of Exposure: Get medical attention. INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYES: Flush with water for at least 15 min., lifting lids occasionally. SKIN: Remove contaminated clothing and shoes. Wash with soap and water.	
3.4 TLV-TWA: Not listed.	
3.5 TLV-STEL: Not listed.	
3.6 TLV-Ceiling: Not listed.	
3.7 Toxicity by Ingestion: Currently not available	
3.8 Toxicity by Inhalation: Currently not available.	
3.9 Chronic Toxicity: Currently not available	
3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.	
3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.	
3.12 Odor Threshold: Currently not available	
3.13IDLH Value: Not listed.	
3.14 OSHA PEL-TWA: Not listed.	
3.15 OSHA PEL-STEL: Not listed.	
3.16 OSHA PEL-Ceiling: Not listed.	
3.17 EPA AEGL: Not listed	

4. FIRE HAZARDS		7. SHIPPING INFORMATION	
4.1	Flash Point: 180°F O.C.	7.1	Grades of Purity: Technical grades.
4.2	Flammable Limits in Air: Currently not available	7.2	Storage Temperature: Ambient.
4.3	Fire Extinguishing Agents: Dry chemical, alcohol foam, or carbon dioxide.	7.3	Inert Atmosphere: No requirement.
4.4	Fire Extinguishing Agents Not to Be Used: Water.	7.4	Venting: Not listed.
4.5	Special Hazards of Combustion Products: Irritating vapors and toxic gases, such as carbon dioxide and carbon monoxide, may be formed when involved in fire.	7.5	IMO Pollution Category: D
4.6	Behavior in Fire: Currently not available	7.6	Ship Type: Data not available
4.7	Auto Ignition Temperature: Currently not available	7.7	Barge Hull Type: Currently not available
4.8	Electrical Hazards: Not listed.	8. HAZARD CLASSIFICATIONS	
4.9	Burning Rate: Currently not available	8.1	49 CFR Category: Not listed.
4.10	Adiabatic Flame Temperature: Currently not available	8.2	49 CFR Class: Not pertinent.
4.11	Stoichiometric Air to Fuel Ratio: 40.5 (calc.)	8.3	49 CFR Package Group: Not listed.
4.12	Flame Temperature: Currently not available	8.4	Marine Pollutant: No
4.13	Combustion Molar Ratio (Reactant to Product): 14.0 (calc.)	8.5	NFPA Hazard Classification:
4.14	Minimum Oxygen Concentration for Combustion (MOCC): Not listed		
5. CHEMICAL REACTIVITY			
5.1	Reactivity with Water: No reaction.		Category
5.2	Reactivity with Common Materials: Currently not available	Health Hazard (Blue).....	0
5.3	Stability During Transport: Stable.	Flammability (Red).....	2
5.4	Neutralizing Agents for Acids and Caustics: Not pertinent.	Instability (Yellow).....	0
5.5	Polymerization: Will not polymerize.		
5.6	Inhibitor of Polymerization: Not pertinent.	8.6	EPA Reportable Quantity: Not listed.
6. WATER POLLUTION		8.7	EPA Pollution Category: Not listed.
6.1	Aquatic Toxicity: Currently not available	8.8	RCRA Waste Number: Not listed
6.2	Waterfowl Toxicity: Currently not available	8.9	EPA FWCRA List: Not listed
6.3	Biological Oxygen Demand (BOD): Currently not available	9. PHYSICAL & CHEMICAL PROPERTIES	
6.4	Food Chain Concentration Potential: Currently not available	9.1	Physical State at 15°C and 1 atm: Liquid
6.5	GESAMP Hazard Profile: Not listed	9.2	Molecular Weight: 162.18
		9.3	Boiling Point at 1 atm: 408.4°F = 209.1°C = 482.1°K
		9.4	Freezing Point: Currently not available
		9.5	Critical Temperature: Currently not available
		9.6	Critical Pressure: Currently not available
		9.7	Specific Gravity: 1.04 @ 20°C
		9.8	Liquid Surface Tension: Currently not available
		9.9	Liquid Water Interfacial Tension: Currently not available
		9.10	Vapor (Gas) Specific Gravity: Currently not available
		9.11	Ratio of Specific Heats of Vapor (Gas): Currently not available
		9.12	Latent Heat of Vaporization: Currently not available
		9.13	Heat of Combustion: Currently not available
		9.14	Heat of Decomposition: Currently not available
		9.15	Heat of Solution: Currently not available
		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

NOTES

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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
68	8.680		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		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
	C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E