

# ETHYLENE GLYCOL ACETATE

EGO

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> 1,2-Ethanediol, monoacetate Ethylene glycol monoacetate Glycol monoacetate Glycol-monoacetin 2-Hydroxyethyl acetate	Liquid	Colorless	Weak fruity odor
Sinks and mixes with water.			
Keep people away. Call fire department. Notify local health and pollution control agencies. Protect water intakes.			
<b>Fire</b>	Combustible. Extinguish with water, dry chemical, alcohol foam, or CO <sub>2</sub> .		
<b>Exposure</b>	CALL FOR MEDICAL AID.  LIQUID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.		
<b>Water Pollution</b>	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.		

### 1. CORRECTIVE RESPONSE ACTIONS

Stop discharge  
Dilute and disperse

### 2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: 34; Esters  
2.2 Formula: CH<sub>3</sub>CO:CH<sub>2</sub>CH<sub>2</sub>OH  
2.3 IMO/UN Designation: Currently not available  
2.4 DOT ID No.: Not listed  
2.5 CAS Registry No.: 542-59-6  
2.6 NAERG Guide No.: Not listed  
2.7 Standard Industrial Trade Classification: 51372

### 3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Goggles or face shield, and rubber gloves.  
3.2 **Symptoms Following Exposure:** Exposure to liquid may cause eye irritation. Ingestion may cause stupor.  
3.3 **Treatment of Exposure:** Call a physician. EYES: Flush with water. SKIN: Flush with water.  
3.4 **TLV-TWA:** Not listed.  
3.5 **TLV-STEL:** Not listed.  
3.6 **TLV-Ceiling:** Not listed.  
3.7 **Toxicity by Ingestion:** Grade 2; LD<sub>50</sub> = 3.8 g/kg (guinea pig)  
3.8 **Toxicity by Inhalation:** Currently not available.  
3.9 **Chronic Toxicity:** Currently not available  
3.10 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to eyes and throat.  
3.11 **Liquid or Solid Characteristics:** No appreciable hazard; practically harmless to skin.  
3.12 **Odor Threshold:** Currently not available  
3.13 **IDLH 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

- 4.1 **Flash Point:** 191°F C.C.  
4.2 **Flammable Limits in Air:** Currently not available  
4.3 **Fire Extinguishing Agents:** Water, alcohol foam, dry chemical or carbon dioxide.  
4.4 **Fire Extinguishing Agents Not to Be Used:** Currently not available  
4.5 **Special Hazards of Combustion Products:** Currently not available  
4.6 **Behavior in Fire:** Currently not available  
4.7 **Auto Ignition Temperature:** Currently not available  
4.8 **Electrical Hazards:** Currently not available  
4.9 **Burning Rate:** Currently not available  
4.10 **Adiabatic Flame Temperature:** Currently not available  
4.11 **Stoichiometric Air to Fuel Ratio:** 21.4 (calc.)  
4.12 **Flame Temperature:** Currently not available  
4.13 **Combustion Molar Ratio (Reactant to Product):** 8.0 (calc.)  
4.14 **Minimum Oxygen Concentration for Combustion (MOCC):** Not listed

### 5. CHEMICAL REACTIVITY

- 5.1 **Reactivity with Water:** No reaction.  
5.2 **Reactivity with Common Materials:** No reaction.  
5.3 **Stability During Transport:** Stable.  
5.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent.  
5.5 **Polymerization:** Not pertinent.  
5.6 **Inhibitor of Polymerization:** Not pertinent.

### 6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:** Currently not available  
6.2 **Waterfowl Toxicity:** Currently not available  
6.3 **Biological Oxygen Demand (BOD):** Currently not available  
6.4 **Food Chain Concentration Potential:** Currently not available  
6.5 **GESAMP Hazard Profile:**  
Bioaccumulation: 0  
Damage to living resources: 1  
Human Oral hazard: 1  
Human Contact hazard: I  
Reduction of amenities: X

### 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** 50%  
7.2 **Storage Temperature:** Currently not available  
7.3 **Inert Atmosphere:** Ambient  
7.4 **Venting:** Currently not available  
7.5 **IMO Pollution Category:** D  
7.6 **Ship Type:** Data not available  
7.7 **Barge Hull Type:** Currently not available

### 8. HAZARD CLASSIFICATIONS

- 8.1 **49 CFR Category:** Not listed.  
8.2 **49 CFR Class:** Not pertinent.  
8.3 **49 CFR Package Group:** Not listed.  
8.4 **Marine Pollutant:** No  
8.5 **NFPA Hazard Classification:**  

Category	Classification
Health Hazard (Blue).....	0
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  
8.9 **EPA FWPCA List:** Not listed

### 9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 **Physical State at 15° C and 1 atm:** Liquid  
9.2 **Molecular Weight:** 104.10  
9.3 **Boiling Point at 1 atm:** 368.6-372.2°F = 187-189°C = 460.2-462.2°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:** 1.110  
9.8 **Liquid Surface Tension:** Currently not available  
9.9 **Liquid Water Interfacial Tension:** Currently not available  
9.10 **Vapor (Gas) Specific Gravity:** 3.59  
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:** Currently not available  
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
	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

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 I S C I 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	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.268 0.277 0.285 0.293 0.301 0.308 0.316 0.324 0.331 0.339 0.346 0.353 0.360 0.367 0.374 0.381 0.388 0.394 0.401 0.407 0.413 0.419 0.426 0.432 0.437