

CRESYL GLYCIDYL ETHER

CGE

CAUTIONARY RESPONSE INFORMATION

Common Synonyms Cresol, epoxypropyl ether Tolyl epoxypropyl ether Tolyl glycidyl ether	Liquid White Sinks and mixes with water.
Keep people away. Shut off ignition sources. Call fire department. Avoid contact with solid and dust. Notify local health and pollution control agencies. Protect water intakes.	
Fire	Combustible. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. Harmful if inhaled. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.
Water Pollution	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
Contain
Collection Systems: Skim; Pump
Chemical and Physical Treatment:
Absorb
Clean shore line

2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: Not listed.
2.2 Formula: $\text{CH}_3\text{C}_6\text{H}_4\text{-O-CH}_2\text{-CH-CH}_2\text{-O}$
2.3 IMO/UN Designation: Not listed
2.4 DOT ID No.: Not listed
2.5 CAS Registry No.: 1319-77-3
2.6 NAERG Guide No.: Not listed
2.7 Standard Industrial Trade Classification: 51615

3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Organic canister mask or air pack; rubber gloves; goggles or face shield; body covering clothing.
3.2 **Symptoms Following Exposure:** Contact with eyes causes irritation. Contact with skin causes primary irritation and allergic sensitization.
3.3 **Treatment of Exposure:** INHALATION: move to fresh air. EYES: flush with water for at least 15 min.; get medical attention. SKIN: immediately wash off with soap and water.
3.4 TLV-TWA: 5 ppm.
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
3.7 **Toxicity by Ingestion:** Poisonous.
3.8 **Toxicity by Inhalation:** Poisonous.
3.9 **Chronic Toxicity:** Extensive skin contact may be fatal in very short time.
3.10 **Vapor (Gas) Irritant Characteristics:** Currently not available
3.11 **Liquid or Solid Characteristics:** Currently not available
3.12 **Odor Threshold:** Currently not available
3.13 IDLH Value: 250 ppm
3.14 OSHA PEL-TWA: 5 ppm
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:** 187°F O.C.
4.2 **Flammable Limits in Air:** Currently not available
4.3 **Fire Extinguishing Agents:** Dry chemical, foam, carbon dioxide
4.4 **Fire Extinguishing Agents Not to Be Used:** Water may be ineffective.
4.5 **Special Hazards of Combustion Products:** Wear full body and respiratory protection.
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:** 57.1 (calc.)
4.12 **Flame Temperature:** Currently not available
4.13 **Combustion Molar Ratio (Reactant to Product):** 16.0 (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:** May attack some forms of plastics.
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:** None
6.5 **GESAMP Hazard Profile:** Not listed

7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** Technical, 100%
7.2 **Storage Temperature:** Ambient
7.3 **Inert Atmosphere:** No requirement
7.4 **Venting:** Open
7.5 **IMO Pollution Category:** Currently not available
7.6 **Ship Type:** Currently 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: Not listed
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: 164
9.3 Boiling Point at 1 atm: (approx.) 498°F = 259°C = 532°K
9.4 Freezing Point: Not pertinent
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 1.09 at 20°C (liquid)
9.8 Liquid Surface Tension: Currently not available
9.9 Liquid Water Interfacial Tension: Currently not available
9.10 Vapor (Gas) Specific Gravity: 3.72
9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
9.12 Latent Heat of Vaporization: Currently not available
9.13 Heat of Combustion: (est.) -16,500 Btu/lb = -9,190 cal/g = -384 X 10⁵ 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: Currently not available

NOTES

CRESYL GLYCIDYL ETHER

CGE

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
42	68.940	51	0.500	51	1.048		N O T
44	68.870	52	0.500	52	1.048		
46	68.799	53	0.500	53	1.048		P E R T I N E N T
48	68.730	54	0.500	54	1.048		
50	68.660	55	0.500	55	1.048		
52	68.589	56	0.500	56	1.048		
54	68.530	57	0.500	57	1.048		
56	68.459	58	0.500	58	1.048		
58	68.389	59	0.500	59	1.048		
60	68.320	60	0.500	60	1.048		
62	68.250	61	0.500	61	1.048		
64	68.179	62	0.500	62	1.048		
66	68.110	63	0.500	63	1.048		
68	68.040	64	0.500	64	1.048		
70	67.969	65	0.500	65	1.048		
72	67.900	66	0.500	66	1.048		
74	67.830	67	0.500	67	1.048		
76	67.759	68	0.500	68	1.048		
		69	0.500	69	1.048		
		70	0.500	70	1.048		
		71	0.500	71	1.048		
		72	0.500	72	1.048		
		73	0.500	73	1.048		
		74	0.500	74	1.048		
		75	0.500	75	1.048		
		76	0.500	76	1.048		

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
	I N S O L U B I L E		N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T