

ETHOXYLATED TETRADECANOL

EOT

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Ethoxylated myristyl alcohol Ethoxylated tetradecyl alcohol Poly(oxylethyl) myristyl ether Poly(oxylethyl) tetradecyl ether Tergitol nonionic 45-S-10	Liquid	Colorless to yellow	Pleasant odor	4.1 Flash Point: 470°F O.C. 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Carbon dioxide or dry chemical for small fires; alcohol foam and water for large fires. 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 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: Not pertinent 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	7.1 Grades of Purity: Usually 100% 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available
Avoid contact with liquid. Call fire department. Notify local health and pollution control agencies. Protect water intakes.				8. HAZARD CLASSIFICATIONS	
Fire	Combustible. Extinguish with water, dry chemical, alcohol foam, or carbon dioxide. Cool exposed containers with water.			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	
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin. Will burn eyes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.			9. PHYSICAL & CHEMICAL PROPERTIES	
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.			9.1 Physical State at 15°C and 1 atm: Liquid 9.2 Molecular Weight: 660 9.3 Boiling Point at 1 atm: Very high 9.4 Freezing Point: 59°F = 15°C = 288°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.007 at 15°C (liquid) 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: (est.) -11,000 Btu/lb = -6,200 cal/g = -260 X 10³ J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: (est.) -9 Btu/lb = -5 cal/g = -0.2 X 10³ J/kg 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	
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 20; Alcohol, glycol 2.2 Formula: $C_{n+1}H_{2n+1}O(CH_2CH_2O)_nCH_2CH_2OH$ where n = 10 (average) 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51219	3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Plastic gloves; goggles. 3.2 Symptoms Following Exposure: Liquid causes eye injury and de-fats the skin, causing irritation. 3.3 Treatment of Exposure: Flush eyes with water for at least 15 min. Wash skin well with water. Get medical attention. 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: None 3.11 Liquid or Solid Characteristics: Liquid causes eye injury. Contact with skin may cause irritation. 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	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: None 6.5 GESAMP Hazard Profile: Not listed	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
60	62.700	68	0.478		N		NOT
61	62.670	69	0.478		O		NOT
62	62.630	70	0.478		T		PERTINENT
63	62.600	71	0.478		P		PERTINENT
64	62.560	72	0.478		R		PERTINENT
65	62.530	73	0.478		T		PERTINENT
66	62.490	74	0.478		I		PERTINENT
67	62.460	75	0.478		N		PERTINENT
68	62.420	76	0.478		E		PERTINENT
69	62.390	77	0.478		N		PERTINENT
70	62.350	78	0.478		E		PERTINENT
71	62.320	79	0.478		N		PERTINENT
72	62.280	80	0.478		O		PERTINENT
73	62.250	81	0.478		T		PERTINENT
74	62.210	82	0.478		P		PERTINENT
75	62.180	83	0.478		R		PERTINENT
76	62.150	84	0.478		T		PERTINENT
77	62.110	85	0.478		I		PERTINENT
78	62.080				N		PERTINENT
79	62.040				O		PERTINENT
80	62.010				T		PERTINENT
81	61.970				P		PERTINENT
82	61.940				R		PERTINENT
83	61.900				T		PERTINENT
84	61.870				I		PERTINENT
85	61.830				N		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
68	10.000		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT