ETHOXYLATED PENTADECANOL

CAUTIONARY RESPONSE INFORMATION Common Synonyms Pleasant odor Ethoxylated pentadecylalcohol Poly(oxyethyl) pentadecyl ether Tergitol nonionic 45-S-10 Mixes slowly with water. Freezing point is 59°F. oid contact with liquid Call fire department Notify local health and pollution control agencies. Protect water intakes. Combustible Fire Extinguish with water, dry chemical, alcohol foam, or carbon dioxide Cool exposed containers with water. CALL FOR MEDICAL AID. **Exposure** 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. Effect of low concentrations on aquatic life is unknown. Water May be dangerous if it enters water intake Notify local health and wildlife officials. **Pollution** Notify operators of nearby water intakes

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS		
Dilute and disperse Stop discharge	2.1 CG Compatibility Group: 20; Alcohol,		
Ctop districtings	glycol 2.2 Formula: C15H31O(CH2CH2O)nCH2CH2OH		
	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:		

3. HEALTH HAZARDS

51219

- 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 available3.10 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
- 3.13 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: 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 pertine
- 4.5 Special Hazards of Combustion Products: Not pertinent
- 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: Currently not
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: Not pertinent
- 4.12 Flame Temperature: Currently not
- 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent
- 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
- 6.3 Biological Oxygen Demand (BOD): Currently not available
- 6.4 Food Chain Concentration Potential:
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 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

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: 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
- 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 X10⁵ J/kg
- 9.14 Heat of Decomposition: Not pertinent
- **9.15 Heat of Solution:** (est.) -9 Btu/lb = -5 cal/g = -0.2×10^5 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

NOTES

ETHOXYLATED PENTADECANOL

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 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	62.700 62.670 62.630 62.630 62.550 62.550 62.490 62.480 62.420 62.350 62.250 62.250 62.250 62.250 62.210 62.110 62.080 62.040 61.970 61.970 61.980 61.870 61.830	68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85	0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478		NOT PERT-ZEZT		NOT PERT-NENT

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 PERTIN		NOT PERTINENT		NOTPERTINE