ETHYLENE GLYCOL PHENYL ETHER

CAUTIONARY RESPONSE INFORMATION Common Synonyms Arosol Doward FP Dowanol EP Dowanol EPH Emerssence 1160 Emery 6705 1-Hydroxy-2-phenoxyethane 2-Phenoxyethanol Phenyl cellosolve Rose ether Avoid contact with liquid. Notify local health and pollution control agencies. Combustible. Extinguish with dry chemical, alcohol foam, or CO₂. Cool exposed containers with water. Fire CALL FOR MEDICAL AID. **Exposure** 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, induce vomiting. Effect of low concentrations on aquatic life is unknown. Water May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. **Pollution**

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge	2.1 CG Compatibility Group: 40; Glycol ethers
Dilute and disperse	2.2 Formula: C ₆ H ₅ OCH ₂ CH ₂ OH
	2.3 IMO/UN Designation: Currently not
	available
	2.4 DOT ID No.: Not listed
	2.5 CAS Registry No.: 122-99-6
	2.6 NAERG Guide No.: Not listed
	2.7 Standard Industrial Trade Classification:
	51616

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Positive pressure self-contained breathing apparatus, protective clothing chemical goggles, gloves and boots.
- 3.2 Symptoms Following Exposure: May cause moderate eye irritation and moderate corneal injury. Excessive exposure may cause skin irritation and hemolysis.

 3.3 Treatment of Exposure: INHALATION: Call for medical aid. Remove to fresh air. INGESTION: Induce vomiting if large amounts are ingested. SKIN: Wash off in flowing water or shower. EYES: Irrigate with flowing water immediately and continuously for 15 minutes.

 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; LD₅₀ = 1.26 g/kg (rat)
- 3.8 Toxicity by Inhalation: Currently not available
- 3.9 Chronic Toxicity: Liver, kidney, thyroid and blood effects.
- 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of eyes and respiratory system if present in high concentration. 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 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:

foam.

- **4.2 Flammable Limits in Air:** Currently not available
- 4.3 Fire Extinguishing Agents: Water fog, carbon dioxide, dry chemical, alcohol
- 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
- 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: 45.2 (calc.)
- 4.12 Flame Temperature: Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 13.0 (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: Will not occu
- 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
- 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: II Reduction of amenities: XX

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 90%
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: Currently not available
- 7.4 Venting: Currently not available
- 7.5 IMO Pollution Category: D 7.6 Ship Type: Data not avaialable
- 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 Classifi Health Hazard (Blue)	
Flammability (Red)	0 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: 138.2
- 9.3 Boiling Point at 1 atm: 474.08°F = 245.6°C = 518.8°K
- 9.4 Freezing Point: 51°F = 11°C = 284.2°K
- 9.5 Critical Temperature: Currently not available
- 9.6 Critical Pressure: Currently not available
- 9.7 Specific Gravity: 1.104 9.8 Liquid Surface Tension: 42 dynes/cm =
- 9.9 Liquid Water Interfacial Tension: Currently
- 9.10 Vapor (Gas) Specific Gravity: 4.8 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
- 9.12 Latent Heat of Vaporization: Currently not
- 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
- 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

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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
77	68.800		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE

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	2.300	77 172 224 250 277 306 326 350 388 430 474	0.000 0.019 0.097 0.193 0.387 0.774 1.160 1.934 3.867 7.735 14.696		CURRENTLY NOT AVA-LABLE	0 25 50 75 150 125 150 125 250 225 250 375 400 425 450 525 550 575 600	0.255 0.266 0.277 0.288 0.298 0.309 0.319 0.329 0.339 0.349 0.359 0.368 0.377 0.386 0.395 0.404 0.413 0.421 0.429 0.438 0.446 0.453 0.461 0.469 0.476