

# ETHYLPHENOL

EPL

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b>		Liquid	Yellow
2-Ethylphenol o-Ethylphenol Phenol, o-ethyl Phlorol			
<p><b>AVOID CONTACT WITH LIQUID AND SOLID.</b>                  Keep people away. Avoid inhalation.                  Wear full-face self-contained breathing apparatus and full protective clothing including rubber boots and gloves.                  Call fire department.                  Evacuate area in case of large discharge.                  Notify local health and pollution control agencies.                  Protect water intakes.</p>			
<b>Fire</b>	Combustible. POISONOUS GASES ARE PRODUCED IN FIRE. Wear full-face self-contained breathing apparatus and full protective clothing including rubber boots and gloves. Extinguish with water, CO <sub>2</sub> , dry chemical, or alcohol foam. Cool exposed containers with water.		
<b>Exposure</b>	CALL FOR MEDICAL AID.  VAPOR Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.  LIQUID OR SOLID POISONOUS IF SWALLOWED. Will burn 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 concentration 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  
Do not burn

### 2. CHEMICAL DESIGNATIONS

- 2.1 **CG Compatibility Group:** 21; Phenols and Cresols  
 2.2 **Formula:** C<sub>8</sub>H<sub>8</sub>O  
 2.3 **IMO/UN Designation:** Currently not available  
 2.4 **DOT ID No.:** Not listed  
 2.5 **CAS Registry No.:** 90-00-6  
 2.6 **NAERG Guide No.:** Not listed  
 2.7 **Standard Industrial Trade Classification:** 51243

### 3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.  
 3.2 **Symptoms Following Exposure:** Harmful if swallowed, inhaled, or absorbed through skin. Irritating to mucous membranes, upper respiratory tract, eyes and skin. Can cause damage to the eyes and severe irritation or burn.  
 3.3 **Treatment of Exposure:** INHALATION: Call for medical aid. Remove the victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYES - OR - SKIN: Flush with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Ensure adequate flushing of the eyes by separating the eyelids with the fingers.  
 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> = 0.6 g/kg (mouse)  
 3.8 **Toxicity by Inhalation:** Currently not available.  
 3.9 **Chronic Toxicity:** Currently not available  
 3.10 **Vapor (Gas) Irritant Characteristics:** Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.  
 3.11 **Liquid or Solid Characteristics:** Severe skin irritant. Causes second and third degree burns on short contact and is very injurious to the eyes.  
 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 AEG1:** Not listed

### 4. FIRE HAZARDS

- 4.1 **Flash Point:** 173°F C.C.  
 4.2 **Flammable Limits in Air:** Currently not available  
 4.3 **Fire Extinguishing Agents:** Carbon dioxide, dry chemical, alcohol foam.  
 4.4 **Fire Extinguishing Agents Not to Be Used:** Currently not available  
 4.5 **Special Hazards of Combustion Products:** Emits toxic fumes under fire conditions.  
 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:** 47.6 (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:** Currently not available  
 5.2 **Reactivity with Common Materials:** Currently not available  
 5.3 **Stability During Transport:** Currently not available  
 5.4 **Neutralizing Agents for Acids and Caustics:** Dry lime or soda ash.  
 5.5 **Polymerization:** Currently not available  
 5.6 **Inhibitor of Polymerization:** Currently not available

### 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: T  
 Damage to living resources: 3  
 Human Oral hazard: 2  
 Human Contact hazard: II  
 Reduction of amenities: XX

### 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** 99%  
 7.2 **Storage Temperature:** Ambient  
 7.3 **Inert Atmosphere:** Currently not available  
 7.4 **Venting:** Currently not available  
 7.5 **IMO Pollution Category:** A  
 7.6 **Ship Type:** 3  
 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:** 122.17  
 9.3 **Boiling Point at 1 atm:** 383-386.6°F = 195-197°C = 468.2-470.2°K  
 9.4 **Freezing Point:** -0.4°F = -18°C = 255.2°K  
 9.5 **Critical Temperature:** Currently not available  
 9.6 **Critical Pressure:** Currently not available  
 9.7 **Specific Gravity:** 1.037  
 9.8 **Liquid Surface Tension:** Currently not available  
 9.9 **Liquid Water Interfacial Tension:** Currently not available  
 9.10 **Vapor (Gas) Specific Gravity:** 4.21  
 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:** <0.01 psia

### 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
	I N S O L U B I L E	115 164 189 215 244 262 287 323 364 406	0.019 0.097 0.193 0.387 0.774 1.160 1.934 3.867 7.735 14.696		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	0.261 0.274 0.286 0.299 0.311 0.322 0.334 0.345 0.357 0.368 0.378 0.389 0.400 0.410 0.420 0.430 0.440 0.450 0.459 0.468 0.478 0.487 0.496 0.504 0.513