

# TRIXYLENYL PHOSPHATE

TRP

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> Coalite NTP Dimethylphenol phosphate (3:1) Reofos 95 Tridimethylphenyl phosphate Trixylyl phosphate Xylenol, phosphate (3:1) Xylyl phosphate		Liquid	Slightly colored	Slight odor
Call fire department. Avoid contact with liquid and vapor. Notify local Health and Pollution Control Agencies.		Insoluble in water; sinks.		
<b>Fire</b>	Combustible. Toxic acidic vapors may form. Extinguish with water fog, alcohol foam, CO <sub>2</sub> or dry chemicals. Wear full protective clothing and self-contained breathing apparatus. Cool exposed containers with water.			
<b>Exposure</b>	CALL FOR MEDICAL AID.  LIQUID Harmful if swallowed. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and induce vomiting. Remove clothing and wash skin with soap and water.			
<b>Water Pollution</b>	Harmful to aquatic life. May be dangerous if it enters water intakes. Notify local health and wildlife officials Notify operators of nearby water intakes.			

<b>1. CORRECTIVE RESPONSE ACTIONS</b> Stop discharge Collection Systems: Pump; Dredge	<b>2. CHEMICAL DESIGNATIONS</b> 2.1 <b>CG Compatibility Group:</b> 34; Esters 2.2 <b>Formula:</b> C <sub>24</sub> H <sub>7</sub> O <sub>4</sub> P 2.3 <b>IMO/UN Designation:</b> Currently not available 2.4 <b>DOT ID No.:</b> Not listed 2.5 <b>CAS Registry No.:</b> 25155-23-1 2.6 <b>NAERG Guide No.:</b> Not listed 2.7 <b>Standard Industrial Trade Classification:</b> 51639
<b>3. HEALTH HAZARDS</b> 3.1 <b>Personal Protective Equipment:</b> Self contained breathing apparatus. 3.2 <b>Symptoms Following Exposure:</b> Breathing or swallowing large quantities may cause ataxia. May irritate skin, respiratory tract, mucous membrane, and eyes. 3.3 <b>Treatment of Exposure:</b> INHALATION: Remove to fresh air. If victim has breathing difficulty, administer oxygen. INGESTION: If victim is conscious, administer a pint of tepid water, then induce vomiting. EYES: Flush with water for at least 15 minutes SKIN: Remove contaminated clothing and wash with soap and water. Call physician if complication develops. 3.4 <b>TLV-TWA:</b> Not listed. 3.5 <b>TLV-STEL:</b> Not listed. 3.6 <b>TLV-Ceiling:</b> Not listed. 3.7 <b>Toxicity by Ingestion:</b> Grade 1; LD <sub>50</sub> = 11.8 g/kg (mouse) 3.8 <b>Toxicity by Inhalation:</b> Currently not available. 3.9 <b>Chronic Toxicity:</b> Currently not available 3.10 <b>Vapor (Gas) Irritant Characteristics:</b> Vapors/mists cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 <b>Liquid or Solid Characteristics:</b> Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin. 3.12 <b>Odor Threshold:</b> Currently not available 3.13 <b>IDLH Value:</b> Not listed. 3.14 <b>OSHA PEL-TWA:</b> Not listed. 3.15 <b>OSHA PEL-STEL:</b> Not listed. 3.16 <b>OSHA PEL-Ceiling:</b> Not listed. 3.17 <b>EPA AEGL:</b> Not listed	

## 4. FIRE HAZARDS

- 4.1 **Flash Point:** 390°F C.C.
- 4.2 **Flammable Limits in Air:** Currently not available
- 4.3 **Fire Extinguishing Agents:** Water fog, carbon dioxide, dry chemicals, alcohol foam.
- 4.4 **Fire Extinguishing Agents Not to Be Used:** Currently not available
- 4.5 **Special Hazards of Combustion**  
 Products: Toxic acidic vapors may form.
- 4.6 **Behavior in Fire:** Currently not available
- 4.7 **Auto Ignition Temperature:** 650°F
- 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:** 142.8 (calc.)
- 4.12 **Flame Temperature:** Currently not available
- 4.13 **Combustion Molar Ratio (Reactant to Product):** 38.0 (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 occur.
- 5.6 **Inhibitor of Polymerization:** Currently not available

## 6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:**  
 Currently not available 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: +  
 Damage to living resources: 3  
 Human Oral hazard: (1)  
 Human Contact hazard: II  
 Reduction of amenities: XXX

## 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** Currently not available
- 7.2 **Storage Temperature:** Ambient.
- 7.3 **Inert Atmosphere:** Nitrogen Atmosphere.
- 7.4 **Venting:** Pressure venting.
- 7.5 **IMO Pollution Category:** A
- 7.6 **Ship Type:** 1
- 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:** Yes
- 8.5 **NFPA Hazard Classification:**

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	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:** 410.4
- 9.3 **Boiling Point at 1 atm:** 480-510°F = 248-265°C = 521.2-538.2°K
- 9.4 **Freezing Point:** -4°F = -20°C = 253.2°K (pour point)
- 9.5 **Critical Temperature:** Currently not available
- 9.6 **Critical Pressure:** Currently not available
- 9.7 **Specific Gravity:** 1.130-1.155
- 9.8 **Liquid Surface Tension:** Currently not available
- 9.9 **Liquid Water Interfacial Tension:** Currently not available
- 9.10 **Vapor (Gas) Specific Gravity:** 14.2
- 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:** Currently not available

## 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	68	190.000

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 L E	302 392	0.000 0.006		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