

P-TERT-BUTYLPHENOL

BTP

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Solid	White	Disinfectant-like odor May float or sink in water.
<p>Restrict access. Avoid contact with solid and dust. Wear rubber overclothing (including gloves). Call fire department. Notify local health and pollution control agencies. Protect water intakes.</p>			
Fire	Combustible. Extinguish with dry chemicals, foam, or carbon dioxide. Water may be ineffective on fire.		
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. If inhaled will cause difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID Will burn skin and eyes. If swallowed will cause nausea and vomiting. 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 and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.		
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.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge Contain Collection Systems: Skim; Dredge Chemical and Physical Treatment: Burn Clean shore line	2.1 CG Compatibility Group: Not listed. 2.2 Formula: 1, 4-(CH ₃) ₂ C ₆ H ₄ OH 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 98-54-4 2.6 NAERG Guide No.: 153 2.7 Standard Industrial Trade Classification: 51243
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Chemical workers' goggles; clean, body-protecting clothing	
3.2 Symptoms Following Exposure: Inhalation of vapors causes irritation of respiratory system. Ingestion causes irritation of mouth and stomach. Contact with eyes causes burns. Contact with dry skin produces no significant irritation, but wet skin is subject to moderate irritation, even a mild burn.	
3.3 Treatment of Exposure: INHALATION: move to fresh air; begin artificial respiration if breathing has ceased. INGESTION: force milk or water and then immediately induce vomiting; treat symptomatically. EYES: immediately flush eyes with plenty of water for at least 15 min., get medical attention promptly. SKIN: flush with plenty of water; remove grossly contaminated clothing.	
3.4 TLV-TWA: 1.0 ppm. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed.	
3.7 Toxicity by Ingestion: Grade 2; oral LD ₅₀ = 3,250 mg/kg (rat)	
3.8 Toxicity by Inhalation: Currently not available.	
3.9 Chronic Toxicity: Currently not available	
3.10 Vapor (Gas) Irritancy Characteristics: Currently not available	
3.11 Liquid or Solid Characteristics: Currently not available	
3.12 Odor Threshold: Currently not available	
3.13IDLH Value: 100 ppm.	
3.14 OSHA PEL-TWA: 10 ppm.	
3.15 OSHA PEL-STEL: Not listed.	
3.16 OSHA PEL-Ceiling: Not listed.	
3.17 EPA AEGL: Not listed	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: 235°F C.C. (liquid)	7.1 Grades of Purity: Technical, 98.5%
4.2 Flammable Limits in Air: Not pertinent	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Dry chemical, foam, carbon dioxide	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Currently not available	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Currently not available	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: 61.9 (calc.)	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): 17.0 (calc.)	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
8. HAZARD CLASSIFICATIONS	9. PHYSICAL & CHEMICAL PROPERTIES
8.1 49 CFR Category: Not listed	9.1 Physical State at 15°C and 1 atm: Solid
8.2 49 CFR Class: Not pertinent	9.2 Molecular Weight: 150
8.3 49 CFR Package Group: Not listed	9.3 Boiling Point at 1 atm: 463.1°F = 239.5°C = 512.7°C
8.4 Marine Pollutant: No	9.4 Freezing Point: 210°F = 99°C = 372°K
8.5 NFPA Hazard Classification: Not listed	9.5 Critical Temperature: Not pertinent
8.6 EPA Reportable Quantity: Not listed	9.6 Critical Pressure: Not pertinent
8.7 EPA Pollution Category: Not listed	9.7 Specific Gravity: 1.037 at 25°C (solid)
8.8 RCRA Waste Number: Not listed	9.8 Liquid Surface Tension: Not pertinent
8.9 EPA FWPCA List: Not listed	9.9 Liquid Water Interfacial Tension: Not pertinent
5. CHEMICAL REACTIVITY	9.10 Vapor (Gas) Specific Gravity: Not pertinent
5.1 Reactivity with Water: No reaction	9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
5.2 Reactivity with Common Materials: Currently not available	9.12 Latent Heat of Vaporization: Not pertinent
5.3 Stability During Transport: Stable	9.13 Heat of Combustion: (est.) -16,900 Btu/lb = -9,410 cal/g = -394 X 10 ⁵ J/kg
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	9.14 Heat of Decomposition: Not pertinent
5.5 Polymerization: Not pertinent	9.15 Heat of Solution: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent	9.16 Heat of Polymerization: Not pertinent
6. WATER POLLUTION	9.17 Heat of Fusion: Currently not available
6.1 Aquatic Toxicity: Currently not available	9.18 Limiting Value: Currently not available
6.2 Waterfowl Toxicity: Currently not available	9.19 Reid Vapor Pressure: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available	
6.4 Food Chain Concentration Potential: None	
6.5 GESAMP Hazard Profile: Bioaccumulation: T Damage to living resources: 3 Human Oral hazard: 1 Human Contact hazard: II Reduction of amenities: XX	

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
	NOT PERTINENT		NOT PERTINENT		NOT PERTINENT		NOT 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	0.001		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT