

COAL TAR PITCH

CTP

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION								
Common Synonyms	Viscous liquid	Black	Aromatic solvent	<p>4.1 Flash Point: >450°C</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Water spray or foam. Avoid solid water streams to prevent frothing.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent.</p> <p>4.5 Special Hazards of Combustion Products: Toxic gases, such as carbon monoxide, may be produced.</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: Currently not available</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: Not pertinent</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: Technical grades.</p> <p>7.2 Storage Temperature: Ambient.</p> <p>7.3 Inert Atmosphere: No requirement.</p> <p>7.4 Venting: Pressure vacuum valve.</p> <p>7.5 IMO Pollution Category: D</p> <p>7.6 Ship Type: 3</p> <p>7.7 Barge Hull Type: 3</p>								
Fire	COMBUSTIBLE. Use self-contained breathing apparatus in confined areas. Extinguish with CO ₂ , alcohol foam, or dry chemical. Use water to cool exposed containers.				8. HAZARD CLASSIFICATIONS								
Exposure	CALL FOR MEDICAL AID. Remove contaminated clothing and shoes. If IN EYES, hold eyelids open and flush with plenty of water. Remove from skin with vegetable or mineral oil.				<p>8.1 49 CFR Category: Flammable liquid</p> <p>8.2 49 CFR Class: 3</p> <p>8.3 49 CFR Package Group: III</p> <p>8.4 Marine Pollutant: Yes</p> <p>8.5 NFPA Hazard Classification:</p> <table> <thead> <tr> <th>Category</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>Health Hazard (Blue)</td> <td>0</td> </tr> <tr> <td>Flammability (Red)</td> <td>1</td> </tr> <tr> <td>Instability (Yellow)</td> <td>0</td> </tr> </tbody> </table> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWC List: Not listed</p>	Category	Classification	Health Hazard (Blue)	0	Flammability (Red)	1	Instability (Yellow)	0
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Water Pollution	Effects 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.				9. PHYSICAL & CHEMICAL PROPERTIES								
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 33; Miscellaneous Hydrocarbon Mixtures 2.2 Formula: Not pertinent. (Mixture) 2.3 IMO/UN Designation: Not listed. 2.4 DOT ID No.: 1136 2.5 CAS Registry No.: 65996-92-1 (polycyclic hydrocarbons) 2.6 NAERG Guide No.: 128 2.7 Standard Industrial Trade Classification: 33530											
3. HEALTH HAZARDS													
<p>3.1 Personal Protective Equipment: Wear approved organic vapor respirator, chemical resistant gloves, and safety goggles.</p> <p>3.2 Symptoms Following Exposure: EYES: Redness, irritation, blurred vision. INHALATION: Nasal and respiratory irritation, fatigue, dizziness, weakness, headache, and possible cardiovascular collapse. INGESTION: Gastrointestinal irritation, nausea, vomiting, and diarrhea. SKIN: Can cause severe irritation, which, when accentuated by sunlight, may result in phototoxic burns.</p> <p>3.3 Treatment of Exposure: CALL FOR MEDICAL AID. EYES: Flush with clean water for at least 15 minutes. INGESTION: No treatment normally required. SKIN: Cool hot material with cold water. Remove with vegetable or mineral oil.</p> <p>3.4 TLV-TWA: Not listed.</p> <p>3.5 TLV-STEL: 0.2 mg/m³ as coal tar pitch volatiles</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Currently not available</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: Currently not available</p> <p>3.10 Vapor (Gas) Irritant Characteristics: Vapors cause moderate irritation such that personnel will find high concentrations unpleasant. The effect is temporary.</p> <p>3.11 Liquid or Solid Characteristics: Causes smarting of the skin and first-degree burns on short exposure; may cause second-degree burns on long exposure.</p> <p>3.12 Odor Threshold: Currently not available</p> <p>3.13 IDLH Value: 80 mg/m³ as coal tar pitch volatiles</p> <p>3.14 OSHA PEL-TWA: 0.2 mg/m³ as coal tar pitch volatiles</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA AEGL: Not listed</p>													
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5. CHEMICAL REACTIVITY													
<p>5.1 Reactivity with Water: No reaction.</p> <p>5.2 Reactivity with Common Materials: No reaction.</p> <p>5.3 Stability During Transport: Stable.</p> <p>5.4 Neutralizing Agents for Acids and Caustics: Not pertinent.</p> <p>5.5 Polymerization: Will not polymerize.</p> <p>5.6 Inhibitor of Polymerization: Not pertinent.</p>													
6. WATER POLLUTION													
<p>6.1 Aquatic Toxicity: Currently not available</p> <p>6.2 Waterfowl Toxicity: Currently not available</p> <p>6.3 Biological Oxygen Demand (BOD): Currently not available</p> <p>6.4 Food Chain Concentration Potential: Currently not available</p> <p>6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 1 Human Oral hazard: - Human Contact hazard: II Reduction of amenities: XXX</p>													
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9. PHYSICAL & CHEMICAL PROPERTIES													
<p>9.1 Physical State at 15° C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: Mixture</p> <p>9.3 Boiling Point at 1 atm: >150°F = >65.6°C = >338.6°K</p> <p>9.4 Freezing Point: Currently not available</p> <p>9.5 Critical Temperature: Currently not available</p> <p>9.6 Critical Pressure: Currently not available</p> <p>9.7 Specific Gravity: >1.1</p> <p>9.8 Liquid Surface Tension: Currently not available</p> <p>9.9 Liquid Water Interfacial Tension: Currently not available</p> <p>9.10 Vapor (Gas) Specific Gravity: >1.0</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</p> <p>9.12 Latent Heat of Vaporization: Currently not available</p> <p>9.13 Heat of Combustion: Currently not available</p> <p>9.14 Heat of Decomposition: Currently not available</p> <p>9.15 Heat of Solution: Currently not available</p> <p>9.16 Heat of Polymerization: Not pertinent.</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>													
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
CURRENTLY NOT AVAILABLE			CURRENTLY NOT AVAILABLE		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
INSOLUBLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE