ASPHALT BLENDING STOCKS: ROOFERS FLUX

	CAUTIONARY RESPO	INSE INFORMATION	ור		7. SHIPPING INFORMATION		
Common Synonyms Asphaltum Asphaltum il Dust-laying oil Fluxing oil Fluxing oil Petroleum tailings Residual oil Road oil		rally Dark brown to black Tar odor k in water. Rubbery solid is produced when cooled.		 11 Flash Point: 300-550°F C.C. 12 Flammable Limits in Air: Not pertinent 13 Fire Extinguishing Agents: Water, foam, dry chemical or carbon dioxide 14 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing 15 Special Hazards of Combustion Products: Not pertinent 	 Shipping INFORMATION Grades of Purity: Currently not available Storage Temperature: Elevated Inert Atmosphere: No requirement Venting: Open (flame arrester) IMO Pollution Category: Currently not available Ship Type: Currently not available Targe Hull Type: Currently not available 		
Stop discharge if possible. Call fire department. Avoid contact with liquid. Isolate and remove discharged material. Notify local health and pollution control agencies.				 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: 400-700°F 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No		
Fire Exposure	Combustible. Extinguish with water, dry chemical, foam, or carbon dioxide. Cool exposed containers with water. CALL FOR MEDICAL AID. LIQUID Will burn skin and eyes. Harmful if swallowed. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALL OWED and victim is CONSCIOLIS have victim drink water.			4.11 Stoichometric Air to Fuel Ratio: Currently not available 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Currently not available 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CHEMICAL REACTIVITY	A.3 NPPA nazaro Classification: Category Classification: Health Hazard (Blue)		
Water Pollution	In SWALLOWED and victim's CONSCIOUS, have victim unit water or milk. DO NOT INDUCE VOMITING. Effect of low concentrations on aquatic life is unknown. FOULING TO SHORELINE. May be dangerous if it enters water intakes. Notify local health and pollution control officials. Notify operators of nearby water intakes.			 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: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 			
1. CORRECTIVE RESPONSE ACTIONS Stop discharge 2 Contain 2 Collection Systems: Skim; Dredge 2 Clean shore line 2 Salvage waterfowl 2 2 2		2. CHEMICAL DESIGNATIONS 2. CG compatibility Group: 33; Miscelaneous Hydrocarbon Mixtures 2. Formula: Not pertinent 3. IMO/UN Designation: 3.2/1999; 3.3/1999 4. DOT ID No.: 1999 5. CAS Registry No.: Currently not available 4. NAERG Guide No.: 130 2.7 Standard Industrial Trade Classification: 33540		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	206 t0 315 K 9.5 Critical Pressure: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: (est.) 1.11 at 50°C (liquid) 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas):		
3.1 Personal Prote 3.2 Symptoms Fol irritation of degree of c Ingestion p 3.3 Treatment of E INGESTIO activated c soap and w 3.4 TLV-TWA: Not	3. HEALTH H active Equipment: Protective cloth llowing Exposure: Inhalation of vag nasal and upper respiratory tract pe chemical pneumonitis with clinical sy orduces intrition of gastrointestinal Exposure: INHALATION OR ASPIR, N. do NOT induce vonting; do NOT charcoal. EYES: wash with plenty of vater. listed.	AZARDS ing: face and eye protection bors from semi-solid materials causes moderate assages. Aspiration causes slow onset and low mptoms of lower respiratory tract irritation. tract. ATION: treatment usually unnecessary. Tavage: administer 2-4 oz of olive oil and 1-2 oz of f water. SKIN: wipe off material and wash with			 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 		
 3.5 ILV-SIEL: Noi 3.6 TLV-Ceilling: N 3.7 Toxicity by Ing 3.8 Toxicity by Inf 3.10 Vapor (Gas) Ir in high con 3.11 Liquid or Soliti exposure; I 3.12 Odor Thresho 3.13 IDLH Value: N 3.14 OSHA PEL-TV 3.16 OSHA PEL-CE 3.17 EPA AEGL: N 	t isted. jestion: Grade 2; LDs = 0.5 to 5 g/ jestion: Currently not available. ity: None observed rritant Characteristics: Vapors cau centrations. The effect is temporan d Characteristics: Causes smarting may cause secondary burns on long jd: Currently not available to listed. VA: Not listed. FL: Not listed. itling: Not listed. itling: Not listed. to listed	kg se irritation of eyes or respiratory system if present (, of the skin and first-degree burns on short exposure.		NOT	ES		

ASPHALT BLENDING STOCKS: ROOFERS FLUX

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
124 126 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 168 170	68.660 65.660 63.660	85 90 105 110 115 120 125 130 135 140 145 150	0.395 0.401 0.414 0.420 0.426 0.433 0.439 0.446 0.452 0.458 0.455 0.471 0.478	175 180 195 200 205 210 215 220 225 230 235 240 245 255 260	0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970 0.970	220 230 240 260 270 280 290 300 310 320 330 340 350 360 370 380 390	93.250 85.889 79.299 73.379 63.240 54.880 54.930 51.340 48.060 45.080 42.340 33.840 37.540 35.420 33.470 31.670 30.000

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	210 220 230 250 260 270 280 300 310 320 330 340 350 360 370 380	0.018 0.026 0.037 0.053 0.074 0.103 0.142 0.193 0.262 0.352 0.470 0.622 0.817 1.384 1.783 2.284 2.909		CURRENTLY NOT AVA-LABLE		NOT PERT-ZEZT