OILS: DIESEL

CAUTIONARY RE	SPONSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Oily liquid Fuel oil 1-D Fuel oil 2-D Floats on w Keep people away. Avoid contact with	liquid.	 4.1 Flash Point: (1-D) 100°F C.C.; (2-D) 125°F C.C. 4.2 Flammable Limits in Air: 1.3-6.0 vol.% 4.3 Fire Extinguishing Agents: Dry chemical, foam, or carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective 	 7.1 Grades of Purity: Diesel Fuel 1-D (ASTM); Diesel Fuel 2-D (ASTM) 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (Hame arrester) 7.5 IMO Pollution Category: Currently not available 		
shut off ignition sources and call fire de Notify local health and pollution control Protect water intakes.		 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent 	7.6 Ship Type: Currently not available7.7 Barge Hull Type: Currently not available		
Fire Combustible. Extinguish with dry chemi Water may be ineffective Cool exposed containers		 4.7 Auto Ignition Temperature: (1-D) 350-625°F (2-D) 490-545°F 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: 4 mm/min. 4.10 Adiabatic Flame Temperature: Currently 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: III		
Exposure CALL FOR MEDICAL AIE LIQUID Irritating to skin and eyes Harmful if swallowed. Remove contaminated ck Flush affected areas with IF IN EYES, hold eyelids IF SWALLOWED and vic or milk. DO NOT INDUCE VOMIT	thing and shoes. plenty of water. open and flush with plenty of water. tim is CONSCIOUS, have victim drink water	 4.10 Autabatic Frainty emperature. Currently not available 4.11 Stoichometric Air to Fuel Ratio: Not pertinent. 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent. 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 	8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)0 Flammability (Red)0 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		
Water Dangerous to aquatic life Pollution May be dangerous if it en Notify local health and wil Notify local health and wil	ters water intakes.	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No			
Notify operators of nearb 1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Bun Absorb Clean shore line Salvage waterfowl	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 33; Miscellaneous Hydrocarbon Mixtures 2.2 Formula: Not applicable	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 6. WATER POLLUTION 6.1 Aquatic Toxicity: 204 my/24 hr/juxenile American shad/TLm/salt water 6.2 Waterfowl Toxicity: >20 m/kg /LDa/mallards	PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: Not pertinent 9.3 Boiling Point at 1 atm: 550–640°F = 288–338°C = 561–612°K 9.4 Freezing Point: -30 to 0°F = -34 to -18°C = 239 to 255°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.841 at 16°C (liquid) 9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 20°C		
occur. 3.3 Treatment of Exposure: INGESTION: do water. EYES: wash with copious amo 3.4 TLV-TWA: Notice of intended change: 100 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 1; LD∞ = 5 i 3.8 Toxicity by Induation: Currently not available 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Var system if present in high concentration	s ingested, an increased frequency of bowel movements will NOT induce vomiting. SKIN: wipe off, wash with soap and unts of water for at least 15 min. mg/m ³ (skin) o 15 g/kg ble. ors cause a slight smarting of the eyes or respiratory s. The effect is temporary. hazard. If spilled on clothing and allowed to remain, may	Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed NO	dynes/cm = 0.05 N/m at 20°C 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: -18,400 Btu/lb = -10,200 cal/g = 429 X 10 ⁵ J/kg 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: Varies ES		
3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed					
			http://zenstoves.net		

OILS: DIESEL

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
50 52 54 56 60 62 64 66 68 70 72 74 76 78 80 82 84	52,430 52,430	10 15 20 25 30 35 40 45 55 60 65 70 75 80 85 90 95 100 105	0.429 0.431 0.434 0.436 0.439 0.441 0.444 0.446 0.448 0.451 0.453 0.456 0.458 0.458 0.461 0.463 0.466 0.468 0.468 0.473 0.475	30 35 40 45 50 55 60 65 70 85 90 95 100 105 110 115 120 125 130	0.968 0.966 0.965 0.963 0.962 0.959 0.958 0.955 0.954 0.955 0.954 0.951 0.950 0.948 0.944 0.944 0.944 0.944 0.944	100	11.950

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	70 75 80 85 90 105 1105 1105 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195	0.042 0.049 0.057 0.065 0.076 0.087 0.100 0.114 0.131 0.149 0.170 0.193 0.218 0.247 0.279 0.314 0.352 0.352 0.395 0.443 0.495 0.552 0.615 0.683 0.758 0.841 0.930		N OT PERTINERTINENT		N O T P E R T I N E N T