

# OILS: CLARIFIED

OCF

CAUTIONARY RESPONSE INFORMATION			4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms	Oily liquid Colorless  Floats on water.		<p><b>4.1 Flash Point:</b> Currently not available</p> <p><b>4.2 Flammable Limits in Air:</b> Currently not available</p> <p><b>4.3 Fire Extinguishing Agents:</b> Dry chemical, foam, or carbon dioxide</p> <p><b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Water may be ineffective</p> <p><b>4.5 Special Hazards of Combustion Products:</b> Not pertinent</p> <p><b>4.6 Behavior in Fire:</b> Not pertinent</p> <p><b>4.7 Auto Ignition Temperature:</b> Currently not available</p> <p><b>4.8 Electrical Hazards:</b> Not pertinent</p> <p><b>4.9 Burning Rate:</b> 4 mm/min.</p> <p><b>4.10 Adiabatic Flame Temperature:</b> Currently not available</p> <p><b>4.11 Stoichiometric Air to Fuel Ratio:</b> Not pertinent</p> <p><b>4.12 Flame Temperature:</b> Currently not available</p> <p><b>4.13 Combustion Molar Ratio (Reactant to Product):</b> Not pertinent.</p> <p><b>4.14 Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>7.1 Grades of Purity:</b> Currently not available</p> <p><b>7.2 Storage Temperature:</b> Ambient</p> <p><b>7.3 Inert Atmosphere:</b> No requirement</p> <p><b>7.4 Venting:</b> Open (flame arrester)</p> <p><b>7.5 IMO Pollution Category:</b> Currently not available</p> <p><b>7.6 Ship Type:</b> Currently not available</p> <p><b>7.7 Barge Hull Type:</b> Currently not available</p>
<b>Fire</b>	Combustible. Extinguish with dry chemical, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.			<p><b>8. HAZARD CLASSIFICATIONS</b></p> <p><b>8.1 49 CFR Category:</b> Not listed</p> <p><b>8.2 49 CFR Class:</b> Not pertinent</p> <p><b>8.3 49 CFR Package Group:</b> Not listed</p> <p><b>8.4 Marine Pollutant:</b> No</p> <p><b>8.5 NFPA Hazard Classification:</b> Not listed</p> <p><b>8.6 EPA Reportable Quantity:</b> Not listed</p> <p><b>8.7 EPA Pollution Category:</b> Not listed.</p> <p><b>8.8 RCRA Waste Number:</b> Not listed</p> <p><b>8.9 EPA FWPCA List:</b> Not listed</p>
<b>Exposure</b>	Not harmful.			<p><b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b></p> <p><b>9.1 Physical State at 15° C and 1 atm:</b> Liquid 3-420 X 10<sup>6</sup> J/kg</p> <p><b>9.2 Molecular Weight:</b> Not pertinent</p> <p><b>9.3 Boiling Point at 1 atm:</b> Currently not available</p> <p><b>9.4 Freezing Point:</b> Not pertinent</p> <p><b>9.5 Critical Temperature:</b> Not pertinent</p> <p><b>9.6 Critical Pressure:</b> Not pertinent</p> <p><b>9.7 Specific Gravity:</b> (est.) 0.85 at 20°C (liquid)</p> <p><b>9.8 Liquid Surface Tension:</b> (est.) 25 dynes/cm = 0.025 N/m at 20°C</p> <p><b>9.9 Liquid Water Interfacial Tension:</b> (est.) 50 dynes/cm = 0.05 N/m at 20°C</p> <p><b>9.10 Vapor (Gas) Specific Gravity:</b> Not pertinent</p> <p><b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent</p> <p><b>9.12 Latent Heat of Vaporization:</b> Not pertinent</p> <p><b>9.13 Heat of Combustion:</b> (est.) -18,000 Btu/lb = -10,000 cal/g =</p> <p><b>9.14 Heat of Decomposition:</b> Not pertinent</p> <p><b>9.15 Heat of Solution:</b> Not pertinent</p> <p><b>9.16 Heat of Polymerization:</b> Not pertinent</p> <p><b>9.17 Heat of Fusion:</b> Currently not available</p> <p><b>9.18 Limiting Value:</b> Currently not available</p> <p><b>9.19 Reid Vapor Pressure:</b> Currently not available</p>
<b>Water Pollution</b>	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			
<p><b>1. CORRECTIVE RESPONSE ACTIONS</b></p> <p>Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn; Absorb Clean shore line Salvage waterfowl</p>		<p><b>2. CHEMICAL DESIGNATIONS</b></p> <p><b>2.1 CG Compatibility Group:</b> 33; Miscellaneous Hydrocarbon Mixtures</p> <p><b>2.2 Formula:</b> Not applicable</p> <p><b>2.3 IMO/UN Designation:</b> Not listed</p> <p><b>2.4 DOT ID No.:</b> Not listed</p> <p><b>2.5 CAS Registry No.:</b> Currently not available</p> <p><b>2.6 NAERG Guide No.:</b> Not listed</p> <p><b>2.7 Standard Industrial Trade Classification:</b> 33419</p>	<p><b>5. CHEMICAL REACTIVITY</b></p> <p><b>5.1 Reactivity with Water:</b> No reaction</p> <p><b>5.2 Reactivity with Common Materials:</b> No reaction</p> <p><b>5.3 Stability During Transport:</b> Stable</p> <p><b>5.4 Neutralizing Agents for Acids and Caustics:</b> Not pertinent</p> <p><b>5.5 Polymerization:</b> Not pertinent</p> <p><b>5.6 Inhibitor of Polymerization:</b> Not pertinent</p>	<p><b>6. WATER POLLUTION</b></p> <p><b>6.1 Aquatic Toxicity:</b> Currently not available</p> <p><b>6.2 Waterfowl Toxicity:</b> Currently not available</p> <p><b>6.3 Biological Oxygen Demand (BOD):</b> Currently not available</p> <p><b>6.4 Food Chain Concentration Potential:</b> None</p> <p><b>6.5 GESAMP Hazard Profile:</b> Not listed</p>
<p><b>3. HEALTH HAZARDS</b></p> <p><b>3.1 Personal Protective Equipment:</b> Goggles or face shield</p> <p><b>3.2 Symptoms Following Exposure:</b> If liquid is ingested, an increased frequency of bowel movements will occur.</p> <p><b>3.3 Treatment of Exposure: INGESTION:</b> Do not induce vomiting; SKIN: Wipe off, wash with soap and water; EYES: Wash with water for at least 15 min.</p> <p><b>3.4 TLV-TWA:</b> Not listed.</p> <p><b>3.5 TLV-STEL:</b> Not listed.</p> <p><b>3.6 TLV-Ceiling:</b> Not listed.</p> <p><b>3.7 Toxicity by Ingestion:</b> Grade 1; LD<sub>50</sub> = 5 to 15 g/kg</p> <p><b>3.8 Toxicity by Inhalation:</b> Currently not available.</p> <p><b>3.9 Chronic Toxicity:</b> Currently not available</p> <p><b>3.10 Vapor (Gas) Irritant Characteristics:</b> Currently not available</p> <p><b>3.11 Liquid or Solid Characteristics:</b> Currently not available</p> <p><b>3.12 Odor Threshold:</b> Currently not available</p> <p><b>3.13 IDLH Value:</b> Not listed.</p> <p><b>3.14 OSHA PEL-TWA:</b> Not listed.</p> <p><b>3.15 OSHA PEL-STEL:</b> Not listed.</p> <p><b>3.16 OSHA PEL-Ceiling:</b> Not listed.</p> <p><b>3.17 EPA AEGL:</b> Not listed</p>				
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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
50	53.060	50	0.460	35	0.920	50	9.343
52	53.060	52	0.461	40	0.919	52	8.841
54	53.060	54	0.462	45	0.918	54	8.370
56	53.060	56	0.463	50	0.917	56	7.927
58	53.060	58	0.464	55	0.916	58	7.511
60	53.060	60	0.465	60	0.915	60	7.119
62	53.060	62	0.466	65	0.914	62	6.751
64	53.060	64	0.467	70	0.913	64	6.404
66	53.060	66	0.468	75	0.912	66	6.078
68	53.060	68	0.469	80	0.911	68	5.770
70	53.060	70	0.470	85	0.910	70	5.481
72	53.060	72	0.471	90	0.909	72	5.207
74	53.060	74	0.472	95	0.908	74	4.950
76	53.060	76	0.473	100	0.907	76	4.707
78	53.060	78	0.474	105	0.906	78	4.477
80	53.060	80	0.475	110	0.905	80	4.260
82	53.060	82	0.476	115	0.904	82	4.056
84	53.060	84	0.477	120	0.903	84	3.862
		86	0.478				
		88	0.479				
		90	0.480				
		92	0.481				
		94	0.482				
		96	0.483				
		98	0.484				
		100	0.485				

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		70	0.042		N		N
N		75	0.049		O		O
S		80	0.057		T		T
O		85	0.065				
L		90	0.076		P		P
U		95	0.087		E		E
B		100	0.100		R		R
L		105	0.114		T		T
E		110	0.131		I		I
		115	0.149		N		N
		120	0.170		E		E
		125	0.193		T		T
		130	0.218		I		I
		135	0.247		N		N
		140	0.279		E		E
		145	0.314		T		T
		150	0.352		I		I
		155	0.395		N		N
		160	0.443		E		E
		165	0.495		T		T
		170	0.552		I		I
		175	0.615		N		N
		180	0.683		E		E
		185	0.758		T		T
		190	0.841		I		I
		195	0.930		N		N