

# OILS, MISCELLANEOUS: MINERAL SEAL

OMS

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Long-time burning oil Mineral colza oil 3000 Oil Signal oil	Oily liquid Floats on water.	Colorless to yellow	Kerosene odor	<p>4.1 Flash Point: 170-275°F O.C.</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Dry chemical, foam, or carbon dioxide</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective.</p> <p>4.5 Special Hazards of Combustion Products: Not pertinent</p> <p>4.6 Behavior in Fire: Not pertinent</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Not pertinent</p> <p>4.9 Burning Rate: 4 mm/min.</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: Several grades of varying pour points, all highly refined.</p> <p>7.2 Storage Temperature: Ambient</p> <p>7.3 Inert Atmosphere: No requirement</p> <p>7.4 Venting: Open (flame arrester)</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies. Protect water intakes.					8. HAZARD CLASSIFICATIONS
Fire	Combustible. Extinguish with dry chemical, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.				<p>8.1 49 CFR Category: Not listed</p> <p>8.2 49 CFR Class: Not pertinent</p> <p>8.3 49 CFR Package Group: Not listed.</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <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 FWPCA List: Not listed</p>
Exposure	CALL FOR MEDICAL AID.  LIQUID Irritating to skin and eyes. Harmful if swallowed. 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. DO NOT INDUCE VOMITING.				9. PHYSICAL & CHEMICAL PROPERTIES
Water Pollution	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>9.1 Physical State at 15°C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: Not pertinent</p> <p>9.3 Boiling Point at 1 atm: &gt;500°F = &gt;260°C = &gt;533°K</p> <p>9.4 Freezing Point: 10.0°F = -12.2°C = 261.0°K</p> <p>9.5 Critical Temperature: Not pertinent</p> <p>9.6 Critical Pressure: Not pertinent</p> <p>9.7 Specific Gravity: 0.811-0.825 at 15°C (liquid)</p> <p>9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 20°C</p> <p>9.9 Liquid Water Interfacial Tension: 47-50 dynes/cm = 0.047-0.050 N/m at 20°C</p> <p>9.10 Vapor (Gas) Specific Gravity: Not pertinent</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent</p> <p>9.12 Latent Heat of Vaporization: Not pertinent</p> <p>9.13 Heat of Combustion: (est.) -18,000 Btu/lb = -10,000 cal/g = -420 X 10<sup>6</sup> J/kg</p> <p>9.14 Heat of Decomposition: Not pertinent</p> <p>9.15 Heat of Solution: Not pertinent</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>
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn Salvage waterfowl	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 33; Miscellaneous Hydrocarbon Mixtures 2.2 Formula: Not listed 2.3 IMO/UN Designation: 3.3/1270 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: Not listed. 2.7 Standard Industrial Trade Classification: 33429	3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Protective gloves; goggles or face shield. 3.2 Symptoms Following Exposure: Vapors cause slight irritation of eyes and nose. Liquid irritates stomach; if taken into lungs causes coughing, distress, and rapidly developing pulmonary edema. 3.3 Treatment of Exposure: ASPIRATION: enforced bed rest; administer oxygen; call a doctor. INGESTION: do NOT induce vomiting; have victim drink water or milk. EYES: wash with copious amounts of water. SKIN: wipe off, wash with soap and water. 3.4 TLV-TWA: 5 mg/m <sup>3</sup> 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; LD <sub>50</sub> = 0.5 to 5 g/kg 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin. 3.12 Odor Threshold: 1 ppm 3.13 IDLH Value: 2,500 mg/m <sup>3</sup> 3.14 OSHA PEL-TWA: 5 mg/m <sup>3</sup> 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed	5. CHEMICAL REACTIVITY 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	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: None 6.5 GESAMP Hazard Profile: Not listed	NOTES

# OILS, MISCELLANEOUS: MINERAL SEAL

OMS

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	50.620	50	0.460	35	0.920	50	9.343
52	50.620	52	0.461	40	0.919	52	8.841
54	50.620	54	0.462	45	0.918	54	8.370
56	50.620	56	0.463	50	0.917	56	7.927
58	50.620	58	0.464	55	0.916	58	7.511
60	50.620	60	0.465	60	0.915	60	7.119
62	50.620	62	0.466	65	0.914	62	6.751
64	50.620	64	0.467	70	0.913	64	6.404
66	50.620	66	0.468	75	0.912	66	6.078
68	50.620	68	0.469	80	0.911	68	5.770
70	50.620	70	0.470	85	0.910	70	5.481
72	50.620	72	0.471	90	0.909	72	5.207
74	50.620	74	0.472	95	0.908	74	4.950
76	50.620	76	0.473	100	0.907	76	4.707
78	50.620	78	0.474	105	0.906	78	4.477
80	50.620	80	0.475	110	0.905	80	4.260
82	50.620	82	0.476	115	0.904	82	4.056
84	50.620	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		O		O
		125	0.193		T		T
		130	0.218		E		E
		135	0.247		R		R
		140	0.279		T		T
		145	0.314		I		I
		150	0.352		N		N
		155	0.395		O		O
		160	0.443		T		T
		165	0.495		E		E
		170	0.552		R		R
		175	0.615		T		T
		180	0.683		I		I
		185	0.758		N		N
		190	0.841		O		O
		195	0.930		T		T