

OILS, EDIBLE: COTTONSEED

OCS

CAUTIONARY RESPONSE INFORMATION

Common Synonyms	Oily liquid Pale yellow Odorless Floats on water. Freezing point is 32°F.
<p>Call fire department. Notify local health and pollution control agencies. Protect water intakes.</p>	
Fire	Combustible. Extinguish with dry chemical, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.
Exposure	Not harmful.
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>1. CORRECTIVE RESPONSE ACTIONS</p> <ul style="list-style-type: none"> Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl 	<p>2. CHEMICAL DESIGNATIONS</p> <ul style="list-style-type: none"> 2.1 CG Compatibility Group: 34; Ester 2.2 Formula: Not applicable 2.3 IMO/UN Designation: Not listed 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: 9899
<p>3. HEALTH HAZARDS</p> <ul style="list-style-type: none"> 3.1 Personal Protective Equipment: Goggles or face shield. 3.2 Symptoms Following Exposure: None; is used as a food. 3.3 Treatment of Exposure: EYES: wash with water for at least 15 min. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: None 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: None 3.10 Vapor (Gas) Irritant Characteristics: None 3.11 Liquid or Solid Characteristics: None 3.12 Odor Threshold: Odorless 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed 	

<p>4. FIRE HAZARDS</p> <ul style="list-style-type: none"> 4.1 Flash Point: 486°F C.C. (refined oil); 610°F C.C. (cooking oil) 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Dry chemical, foam, or carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing. 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: 650°F (refined oil) 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric 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 	<p>7. SHIPPING INFORMATION</p> <ul style="list-style-type: none"> 7.1 Grades of Purity: Refined; cooking 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: D 7.6 Ship Type: Data not available 7.7 Barge Hull Type: Currently not available <p>8. HAZARD CLASSIFICATIONS</p> <ul style="list-style-type: none"> 8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: <table border="0"> <tr> <td style="padding-right: 20px;">Category</td> <td>Classification</td> </tr> <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> </table> <ul style="list-style-type: none"> 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 	Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	1	Instability (Yellow).....	0
Category	Classification								
Health Hazard (Blue).....	0								
Flammability (Red).....	1								
Instability (Yellow).....	0								
<p>5. CHEMICAL REACTIVITY</p> <ul style="list-style-type: none"> 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 	<p>9. PHYSICAL & CHEMICAL PROPERTIES</p> <ul style="list-style-type: none"> 9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: Not pertinent 9.3 Boiling Point at 1 atm: Very high 9.4 Freezing Point: 32°F = 0°C = 273°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.922 at 20°C (liquid) 9.8 Liquid Surface Tension: 35 dynes/cm = 0.035 N/m at 20°C 9.9 Liquid Water Interfacial Tension: (est.) 50 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: (est.) = -16,000 Btu/lb = -8,870 cal/g = -371 X 10⁵ 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: 0.1 psia 								
<p>6. WATER POLLUTION</p> <ul style="list-style-type: none"> 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

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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	58.050	35	0.516	35	0.920	50	3909.000
52	57.980	40	0.516	40	0.919	55	3027.000
54	57.910	45	0.516	45	0.918	60	2356.000
56	57.840	50	0.516	50	0.917	65	1842.000
58	57.780	55	0.516	55	0.916	70	1448.000
60	57.710	60	0.516	60	0.915	75	1142.000
62	57.640	65	0.516	65	0.914	80	905.500
64	57.570	70	0.516	70	0.913	85	720.799
66	57.500	75	0.516	75	0.912	90	576.199
68	57.430	80	0.516	80	0.911	95	462.399
70	57.360	85	0.516	85	0.910	100	372.599
72	57.290	90	0.516	90	0.909	105	301.399
74	57.220	95	0.516	95	0.908	110	244.699
76	57.150	100	0.516	100	0.907	115	199.299
78	57.080	105	0.516	105	0.906	120	163.000
80	57.010	110	0.516	110	0.905	125	133.699
82	56.940	115	0.516	115	0.904	130	110.099
84	56.870	120	0.516	120	0.903	135	90.940
86	56.800	125	0.516				
88	56.730	130	0.516				
90	56.670	135	0.516				
92	56.600	140	0.516				
94	56.530						
96	56.460						
98	56.390						
100	56.320						

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	35	0.013		N		N
	N	40	0.016		O		O
	S	45	0.018		T		T
	O	50	0.022				
	L	55	0.026		P		P
	U	60	0.030		E		E
	B	65	0.035		R		R
	L	70	0.041		T		T
	E	75	0.048		I		I
		80	0.056		N		N
		85	0.065		E		E
		90	0.075		N		N
		95	0.086		T		T
		100	0.099				
		105	0.113				
		110	0.129				
		115	0.147				
		120	0.168				