

OILS, EDIBLE: LARD

OLD

CAUTIONARY RESPONSE INFORMATION				7. SHIPPING INFORMATION									
Common Synonyms Kettle rendered lard Lard Leaf lard Prime steam lard	Liquid or solid Floats on water.	Colorless to Light yellow	Fatty odor	4. FIRE HAZARDS	7.1 Grades of Purity: Various grades, depending on source of animal fat used and method of rendering 7.2 Storage Temperature: Ambient, or elevated (for liquid) 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available								
Call fire department. Notify local health and pollution control agencies. Protect water intakes.				4. FIRE HAZARDS	8. HAZARD CLASSIFICATIONS								
Fire	Combustible. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire.				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><tr><td>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>	Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	1	Instability (Yellow).....	0
Category	Classification												
Health Hazard (Blue).....	0												
Flammability (Red).....	1												
Instability (Yellow).....	0												
Exposure	LIQUID OR SOLID Not harmful. DO NOT INDUCE VOMITING.				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								
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.				9. PHYSICAL & CHEMICAL PROPERTIES								
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Absorb Clean shore line Salvage waterfowl		2. CHEMICAL DESIGNATIONS 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: 41120											
3. HEALTH HAZARDS													
3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves. 3.2 Symptoms Following Exposure: Substance is essentially nontoxic. Prolonged contact with skin may cause dermatitis (oil acne). Hot liquid can burn eyes or skin. 3.3 Treatment of Exposure: EYES: flush with water for at least 15 min.; get medical attention for burn. SKIN: wipe off; get medical attention for burn. INGESTION: do NOT induce vomiting. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: None 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13IDLH 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 A EGL: Not listed													
4. FIRE HAZARDS													
4.1 Flash Point: 395°F C.C. 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Dry chemical, foam, carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Water or foam may cause frothing; water may be ineffective. 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: 833°F 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: 4 mm/min. 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													
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: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 0 Human Contact hazard: 0 Reduction of amenities: X													
7. SHIPPING INFORMATION													
7.1 Grades of Purity: Various grades, depending on source of animal fat used and method of rendering 7.2 Storage Temperature: Ambient, or elevated (for liquid) 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available													
8. HAZARD CLASSIFICATIONS													
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><tr><td>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>						Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	1	Instability (Yellow).....	0
Category	Classification												
Health Hazard (Blue).....	0												
Flammability (Red).....	1												
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 PROPERTIES													
9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: Not pertinent 9.3 Boiling Point at 1 atm: Not pertinent 9.4 Freezing Point: 66–99°F = 19–37°C = 292–310°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.861 at 15°C (liquid) 9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 30°C 9.9 Liquid Water Interfacial Tension: (est.) 50 dynes/cm = 0.050 N/m at 30°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: -16,750 Btu/lb = -9,320 cal/g = -390 X 10 ³ 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: Currently not available													
NOTES													

OILS, EDIBLE: LARD

OLD

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
88	53.380	88	0.480	66	1.158		N O
90	53.320	90	0.480	68	1.157		T
92	53.270	92	0.480	70	1.157		
94	53.210	94	0.480	72	1.156		
96	53.160	96	0.480	74	1.156		
98	53.100	98	0.480	76	1.156		
100	53.040	100	0.480	78	1.155		
102	52.990	102	0.480	80	1.155		
104	52.930	104	0.480	82	1.154		
106	52.880	106	0.480	84	1.154		
108	52.820	108	0.480	86	1.153		
110	52.770	110	0.480	88	1.153		
112	52.710	112	0.480	90	1.152		
114	52.660	114	0.480	92	1.152		
116	52.600	116	0.480	94	1.152		
118	52.550	118	0.480	96	1.151		
120	52.490	120	0.480	98	1.151		
122	52.430	122	0.480	100	1.150		
				102	1.150		
				104	1.149		
				106	1.149		
				108	1.148		
				110	1.148		
				112	1.148		
				114	1.147		
				116	1.147		

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		N O T P E R T I N E T		N O T P E R T I N E T		N O T P E R T I N E T