3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves.
3.2 Symptoms Following Exposure: Oil is essentially nonirritating but can cause mild irritation of eyes on contact.
3.3 Treatment of Exposure: EYES: flush with water for at least 15 min. 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
3.13 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 AEL: Not listed

4. FIRE HAZARDS
4.1 Flash Point: 420°F C.C. (crude) 580°F C.C. (refined)
4.2 Flammable Limits in Air: Not pertinent
4.3 Fire Extinguishing Agents: Foam, carbon dioxide, dry chemical
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: Currently not available
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: Not pertinent
4.15 Maximum Oxygen Concentration for Combustion: Not pertinent
4.16 Upper Explosive Limit: Not pertinent
4.17 Lower Explosive Limit: Not pertinent
4.18 Explosion Index: Not pertinent
4.19 Inert Atmosphere: Not pertinent
4.20 Venting: Not pertinent
4.21 Pressure Relieving Device: Not pertinent
4.22 Reactivity with Water: Not pertinent
4.23 Reactivity with Common Materials: Not pertinent
4.24 Reactivity with Water: Not pertinent
4.25 Reactivity with Metals: Not pertinent
4.26 Reactivity with Alcohols: Not pertinent
4.27 Reactivity with Acids and Alkalis: Not pertinent
4.28 Reactivity with Oxidizing Agents: Not pertinent
4.29 Reactivity with Reducing Agents: Not pertinent
4.30 Reactivity with Strong Acids: Not pertinent
4.31 Reactivity with Strong Bases: Not pertinent
4.32 Reactivity with Water: Not pertinent
4.33 Reactivity with Water: Not pertinent
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4.99 Reactivity with Water: Not pertinent
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
7. SHIPPING INFORMATION
7.1 Grades of Purity: Crude; Cochin. All grades contain 3-5% free fatty acids.
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrester)
7.5 IMO Pollution Category: 0
7.6 Ship Type: Data 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 NPNA Hazard Classification: Category Classification
Health Hazard (Blue): Not pertinent
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 PROPERTIES
9.1 Physical State at 15° C and 1 atm: Solid or liquid
9.2 Molecular Weight: Not pertinent
9.3 Boiling Point at 1 atm: Not pertinent (very high)
9.4 Freezing Point: (approx.) 76°F = 24°C = 297°K
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 0.922 at 25°C (liquid)
9.8 Liquid Surface Tension: 33.4 dynes/cm = 0.0334 N/m at 20°C
9.9 Liquid Water Interfacial Tension: (est.) 50 dynes/cm = 0.0550 N/m at 25°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.) = –15,500 Btu/lb = –8,600 cal/g = –360 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: Currently not available

NOTES

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<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound-F</th>
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<th>British thermal unit inch per hour-square foot-F</th>
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**OILS, EDIBLE: COCONUT**

**JUNE 1999**