### 1. CORRECTIVE RESPONSE ACTIONS

**1.1 Personal Protective Equipment:** Wear positive pressure breathing apparatus and special protective clothing.

**1.2 Symptoms Following Exposure:** Inhalation: May irritate mucous membranes; it is extremely acid and corrosive. Toxic may be harmful if inhaled. Eyes: May cause burns to eyes. Skin: Produces severe inflammation of the skin with subsequent blisters and desquamation. Symptoms resemble poison ivy exposure effects. Ingestion: Toxic and irritating. Cardiol, a principal constituent, produces severe gastroenteritis.

**1.3 Treatment of Exposure:** Call emergency medical care. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Eyes/Skin: Immediately flush with running water for at least 15 minutes; hold eyelids open periodically, if appropriate. Speed in removing material from skin is of extreme importance. Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature. Effects may be delayed; keep victim under observation.

### 2. CHEMICAL DESIGNATIONS

**2.1 CG Compatibility Group:** Acid

**2.2 Formula:** Currently not available

**2.3 IOM/UN Designation:** Not listed

**2.4 DOT ID No.:** Not listed

**2.5 CAS Registry No.:** 8001-24-7

**2.6 NAERG Guide No.:** Not listed

**2.7 Standard Industrial Trade Classification:** Not pertinent

### 3. HEALTH HAZARDS

**3.1 Personal Protective Equipment:** Wear positive pressure breathing apparatus and special protective clothing.

**3.2 Symptoms Following Exposure:** Inhalation: May irritate mucous membranes; it is extremely acid and corrosive. Toxic may be harmful if inhaled. Eyes: May cause burns to eyes. Skin: Produces severe inflammation of the skin with subsequent blisters and desquamation. Symptoms resemble poison ivy exposure effects. Ingestion: Toxic and irritating. Cardiol, a principal constituent, produces severe gastroenteritis.

**3.3 Treatment of Exposure:** Call emergency medical care. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Eyes/Skin: Immediately flush with running water for at least 15 minutes; hold eyelids open periodically, if appropriate. Speed in removing material from skin is of extreme importance. Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature. Effects may be delayed; keep victim under observation.

### 4. FIRE HAZARDS

**4.1 Flash Point:** Currently not available

**4.2 Flammable Limits in Air:** Currently not available

**4.3 Fire Extinguishing Agents:** Small fires: dry chemical, carbon dioxide, water spray or foam. Large Fires: Water spray, fog or foam.

**4.4 Fire Extinguishing Agent Not to Be Used:** Not pertinent

**4.5 Special Hazards of Combustion Products:** May contain irritating or poisonous gases. This reaction could generate pressure in a heated closed container.

**4.6 Behavior in Fire:** The primary constituent, anacardic acid, deacylates at high temperatures to produce carbon dioxide gas. This reaction could generate pressure in a heated closed container.

**4.7 Auto Ignition Temperature:** Currently not available

**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:** Data 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 restrictions on aluminum, aluminum alloys, copper, copper alloys, zinc, galvanized steel or alloys having more than 10 percent zinc (by weight); lead, magnesium, silver or silver alloys, or copper.

**5.3 Stability During Transport:** Stable

**5.4 Neutralizing Agents for Acids and Polyelectrolytes:** Not pertinent

**5.5 Polymerization:** Currently not available

**5.6 Inhibitor of Polymerization:** Currently not available

### 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:** Currently not available

**6.5 GESAMP Hazard Profile:** Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 0 Human Contact hazard: 1 Reduction of amenities: X

### 7. SHIPPING INFORMATION

**7.1 Grades of Purity:** Variable untreated mixture. Range of main C2 component photol from salicylic acid: 15.8 to 20.1%; cardol: 2.6%; cardolinol: 1.2 to 2.9%. Each component has four constituents because the C3 slide chain for each component has 0, 2, 3 and 3 double bonds.

**7.2 Storage Temperature:** Currently not available

**7.3 Inert Atmosphere:** No requirement

**7.4 Venting:** Pressure vacuum valve

**7.5 IMO Pollution Category:** Not pertinent

**7.6 Ship Type:** Not pertinent

**7.7 Barge Hull Type:** Currently not available

### 8. HAZARD CLASSIFICATIONS

**8.1 49 CFR Category:** Not pertinent

**8.2 49 CFR Class:** Not pertinent

**8.3 49 CFR Package Group:** Not listed

**8.4 Marine Pollutant:** Not pertinent

**8.5 NFPA Hazard Classification:** Not listed

**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:** Currently not available

**9.2 Molecular Weight:** Not pertinent

**9.3 Boiling Point at 1 atm:** Not pertinent

**9.4 Freezing Point:** Not pertinent

**9.5 Critical Temperature:** Not pertinent

**9.6 Critical Pressure:** Not pertinent

**9.7 Specific Gravity:** Currently not available

**9.8 Liquid Surface Tension:** Not pertinent

**9.9 Liquid Water Interfacial Tension:** Not pertinent

**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:** Not pertinent

**9.14 Heat of Decomposition:** Not pertinent

**9.15 Heat of Solution:** Not pertinent

**9.16 Heat of Polymerization:** Currently not available

**9.17 Heat of Fusion:** Currently not available

**9.18 Limiting Value:** Currently not available

**9.19 Reid Vapor Pressure:** Currently not available

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**NOTE:**

- **JUNE 1999**
- **OCN**

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### OIL, MISC: CASHEW NUT SHELL
## OIL, MISC: CASHEW NUT SHELL

### 9.20 SATURATED LIQUID DENSITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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<tbody>
<tr>
<td>NOT</td>
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</tr>
<tr>
<td>PERTINENT</td>
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### 9.21 LIQUID HEAT CAPACITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound-F</th>
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<tr>
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<td>PERTINENT</td>
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### 9.22 LIQUID THERMAL CONDUCTIVITY

<table>
<thead>
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<th>Temperature (degrees F)</th>
<th>British thermal unit inch per hour-square foot-F</th>
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<td>PERTINENT</td>
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### 9.23 LIQUID VISCOSITY

<table>
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<th>Temperature (degrees F)</th>
<th>Centipoise</th>
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### 9.24 SOLUBILITY IN WATER

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<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per 100 pounds of water</th>
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<tr>
<td>INSoluble</td>
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### 9.25 SATURATED VAPOR PRESSURE

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<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per square inch</th>
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### 9.26 SATURATED VAPOR DENSITY

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<th>Temperature (degrees F)</th>
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<tr>
<td>PERTINENT</td>
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### 9.27 IDEAL GAS HEAT CAPACITY

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JUNE 1999