### 1. CORRECTIVE RESPONSE ACTIONS

- **Ship discharge**: Contain.
- **Collection Systems**: Skim, Pump.
- **Chemical and Physical Treatment**: Absorb.
- **Do not burn**.
- **Clean shore line**.
- **Salvage water/wastewater**.

### 2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: Not listed.
- 2.2 Formula: C_{27}H_{27}O_{4}Ca.
- 2.3 IMO/UN Designation: Not listed.
- 2.4 DOT ID No.: Not listed.
- 2.5 CAS Registry No.: 27176-87-0.
- 2.6 NAERG Guide No.: Not listed.
- 2.7 Standard Industrial Trade Classification: 51549.

### 3. HEALTH HAZARDS

- **Personal Protective Equipment**: Goggles or face shield, rubber gloves.
- **Symptoms Following Exposure**: Ingestion causes irritation of mouth and stomach. Contact with eyes causes irritation. Has a drying effect on skin, prolonged contact may cause irritation.
- **Treatment of Exposure**: **Ingestion**: give large amount of water; do NOT induce vomiting. **Eyes**: flush with water for at least 15 min. **Skin**: wash, flush with water.
- 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: Currently not available.
- 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.
- 3.15 OSHA PEL-STEL: Not listed.
- 3.16 OSHA PEL-Ceiling: Not listed.
- 3.17 EPA AEGI: Not listed.

### 4. FIRE HAZARDS

- **Flash Point**: >100°F C.C.
- **Flammable Limits in Air**: Currently not available.
- **Fire Extinguishing Agents**: Dry chemical, foam, carbon dioxide.
- **Fire Extinguishing Agents Not to Be Used**: Water may be ineffective.
- **Special Hazards of Combustion**: Products: Currently not available.
- **Behavior in Fire**: Currently not available.
- **Auto Ignition Temperature**: Currently not available.
- **Flammable Limit Air to Fuel Ratio**: Not pertinent.
- **12 Flame Temperature**: Currently not available.
- **Combustion Molar Ratio (Reactant to Product)**: Not pertinent.
- **14 Minimum Oxygen Concentration for Combustion (MIC)**: Not listed.

### 5. CHEMICAL REACTIVITY

- **Reactivity with Water**: Currently not available.
- **Reactivity with Common Materials**: Not pertinent.
- **Neutralizing Agents for Acids and Caustics**: Not pertinent.
- **Polymerization**: Not pertinent.
- **Inhibitor of Polymerization**: Not pertinent.

### 6. WATER POLLUTION

- **Aquatic Toxicity**: Currently not available.
- **Waterfowl Toxicity**: Currently not available.
- **Biological Oxygen Demand (BOD)**: Currently not available.
- **Food Chain Concentration Potential**: None.
- **GESAMP Hazard Profile**: Bioaccumulation: 0, Damage to living resources: 3, Human Oral hazard: 1, Human Contact hazard: 1, Reduction of amenities: X.

### 7. SHIPPING INFORMATION

- **EPA Reportable Quantity**: Not listed.
- **EPA Toxicity**: Not pertinent.
- **Waterfowl Toxicity**: Not pertinent.
- **Aquatic Toxicity**: Not pertinent.
- **Bioaccumulation**: Not pertinent.
- **Human Contact**: Not pertinent.
- **Human Oral**: Not pertinent.
- **Bioaccumulation**: Not pertinent.
- **Environmental Impact**: Not pertinent.
- **Evaluation**: Not pertinent.
- **Exposure**: Not pertinent.
- **Risk**: Not pertinent.
- **SAR**: Not pertinent.
- **Wetability**: Not pertinent.
- **Cleaning Agents**: Not pertinent.
- **DAFRA**: Not pertinent.
- **Fire and Explosion**: Not pertinent.
- **Flash Point**: Not pertinent.
- **Freezing Point**: Not pertinent.
- **Waterfowl Toxicity**: Not pertinent.
- **Aquatic Toxicity**: Not pertinent.
- **Biological Oxygen Demand (BOD)**: Not pertinent.

### NOTES

- **Physical & Chemical Properties**: Not pertinent.
- **Boiling Point**: Not pertinent.
- **Freezing Point**: Not pertinent.
- **Critical Temperature**: Not pertinent.
- **Critical Pressure**: Not pertinent.
- **Flash Point**: Not pertinent.
- **Waterfowl Toxicity**: Not pertinent.
- **Aquatic Toxicity**: Not pertinent.
- **Biological Oxygen Demand (BOD)**: Not pertinent.
- **Food Chain Concentration Potential**: Not pertinent.
- **Reactivity with Water**: Not pertinent.
- **Reactivity with Common Materials**: Not pertinent.
- **Neutralizing Agents for Acids and Caustics**: Not pertinent.
- **Polymerization**: Not pertinent.
- **Inhibitor of Polymerization**: Not pertinent.
- **Water Pollution**: Not pertinent.
- **Flash Point**: Not pertinent.
- **Freezing Point**: Not pertinent.
- **Waterfowl Toxicity**: Not pertinent.
- **Aquatic Toxicity**: Not pertinent.
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JUNE 1999