### CAUTIONARY RESPONSE INFORMATION

#### Common Synonyms
- Liquid or Solid: White, Mild odor

Keep people away. Avoid contact with liquid or solid. Call fire department. Notify local health and pollution control agencies. Protect water intakes.

**Fire**
- Combustible. Extinguish with dry chemicals, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.

**Exposure**
- CALL FOR MEDICAL AID.
- LIQUID OR SOLID: Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm. IF IN EYES and victim is UNCONSCIOUS, notify operators of nearby water intakes.
- Notify local health and wildlife officials. May be dangerous if it enters water intakes.

**Water Pollution**
- Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

### 1. CORRECTIVE RESPONSE ACTIONS

**Drill and dispense**
- Stop discharge

### 2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: Not listed.
2.2 Formula: C19H44O(n)
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: 51243

### 3. HEALTH HAZARDS

3.1 Personal Protective Equipment:
- Gloves and safety glasses

3.2 Symptoms Following Exposure:
- Contact with eyes causes irritation. Prolonged contact with skin causes irritation.

3.3 Treatment of Exposure:
- No treatment required for inhalation or ingestion. EYES: flush with copious quantities of tap water for 15 min. and seek appropriate medical attention. SKIN: wash affected areas with soap and water.

3.4 TLV-TWA: Not listed
3.5 TLV-STEL: Not listed
3.6 TLV-Ceiling: Not listed
3.7 Toxicity by Ingestion: Grade 2; oral LD50 = 1,310 mg/kg (rat)
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
3.14 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

### 4. FIRE HAZARDS

4.1 Flash Point: (burns with difficulty) 338-600°F O.C. > 140°F C.
4.2 Flamable Limits in Air: Not pertinent
4.3 Fire Extinguishing Agents: Dry chemicals, foam, carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective on fire.
4.5 Special Hazards of Combustion Products: Currently not available
4.6 Behavior in Fire: Currently not available
4.7 Auto Ignitination Temperature: Currently not available
4.8 Electrical Hazards: Not pertinent
4.9 Burning Rate: Not pertinent
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 (MCC): Not listed

### 5. CHEMICAL REACTIVITY

5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials:
  - Currently not available
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:
  - 1.0 to > 1,000 ppm/L (bluegills/LCw, increased ethyleneoxide chain growth decreases toxicity)
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): 0.5-2.0% of theoretical in 5 days
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile: Not listed

### 7. SHIPPING INFORMATION

7.1 Grades of Purity: Commercial
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open
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 48 CFR Class: Not pertinent
8.3 49 CFR Package Group: Not listed
8.4 Marine Pollutant: No
8.5 HPF 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: Solid or liquid
9.2 Molecular Weight: >500
9.3 Boiling Point at 1 atm: Not pertinent (decomposes)
9.4 Freezing Point: Not pertinent
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 0.99-1.07 at 25°C (liquid)
9.8 Liquid Surface Tension: Currently not available
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: Currently not available
9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution: Currently not available
9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Values: Currently not available
9.19 Reid Vapor Pressure: Currently not available

### NOTES

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## ETHOXYLATED NONYLPHENOL

**9.20 SATURATED LIQUID DENSITY**

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>N O T</td>
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<td>P E R T</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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<tbody>
<tr>
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**9.22 LIQUID THERMAL CONDUCTIVITY**

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit inch per hour-square foot-F</th>
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<tbody>
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**9.23 LIQUID VISCOSITY**

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Centipoise</th>
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**9.24 SOLUBILITY IN WATER**

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per 100 pounds of water</th>
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<tbody>
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<td>M I S C I B L E</td>
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**9.25 SATURATED VAPOR PRESSURE**

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

<table>
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<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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<tbody>
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**9.27 IDEAL GAS HEAT CAPACITY**

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<th>Temperature (degrees F)</th>
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_JUNE 1999_