MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 7/01/86

SECTION 1 - PRODUCT IDENTIFICATION

Distributor Name: Palmer Company, Inc.
Address: 1201 Sentry Dr. Waukesha, WI 53186
Trade Name: Guardian II
Product Type: Disinfectant Cleaner/Sanitizer
Chemical Family: Formula: Compounded Product

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME/COMMON NAME</th>
<th>CAS NO.</th>
<th>PERCENT (optional)</th>
<th>TLV (Source)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicic Acid - Sodium Salt</td>
<td>1344-09-8</td>
<td>&lt; 5%</td>
<td>2.0mg/M³ *</td>
</tr>
<tr>
<td>Alkyl Dimethyl Benzyl Ammonium Chloride</td>
<td>68391-01-5</td>
<td>&lt; 2%</td>
<td>Not Established</td>
</tr>
<tr>
<td>Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride</td>
<td>68956-79-6</td>
<td>&lt; 2%</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

* As NaOH

SECTION 3 - PHYSICAL DATA

Boiling Point (°F): 212° F
Vapor Pressure (mmHg): Not Determined
Specific Gravity (H₂O = 1.0): 1.080 ± 0.005
pH: 13.0 ± 0.5
Vapor Density (Air = 1): Not Determined
Emulsifiable (or dispersible): No
Slight (or partial): No
Solubility in Water: Complete
Insoluble: No
Complete: Yes
Insoluble: No
Slower: No
Faster: Yes
Evaporation Rate (vs H₂O): Not Determined
Appearance and Odor: Aqua colored liquid with characteristic odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.): > 200° F
None to None
Flammable: Not
Boiling Limits: Determined
Upper: Not
Lower: Not
Extinguishing Media: Water Fog; Carbon Dioxide; Dry Chemical; Alcohol Foam
Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with full protective equipment.
Unusual Fire and Explosion Hazards: None

SECTION 5 - REACTIVE DATA

Stability: Stable
Incompatibility: Strong Oxidizers, Strong Acids, Anionic Surfactants
Hazardous Decomposition Products: Burning can produce Carbon Dioxide and/or Carbon Monoxide
### SECTION 6 - HEALTH HAZARDS

<table>
<thead>
<tr>
<th>Threshold Limit Value - Product (See Section 2 for Ingredient TLV)</th>
<th>None Established</th>
<th>Not Applicable</th>
<th>Source</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Primary Routes of Exposure</th>
<th>Eye</th>
<th>Skin</th>
<th>Oral</th>
<th>Inhalation</th>
<th>Other</th>
</tr>
</thead>
</table>

**Signs and Symptoms of Over-exposure (Acute)**

Prolonged or repeated contact of concentrated product with eyes will cause transient irritation and reddening. May cause skin irritation with some individuals. Ingestion may cause nausea, vomiting, diarrhea and mucousal irritation.

**Signs and Symptoms of Over-exposure (Chronic)**

None Currently Known.

**Medical Conditions Aggravated by Over-exposure**

An Existing Dermatitis

<table>
<thead>
<tr>
<th>Carcinogen or Suspect Carcinogen Ingredients:</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA</th>
<th>None</th>
</tr>
</thead>
</table>

### SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

**Eyes**

Flush with water for at least 15 minutes and call a physician.

**Skin**

Wash with large amounts of soap and water. If irritation persists, consult a physician.

**Ingestion**

Do NOT induce vomiting. Dilute by drinking water. Call a physician immediately.

**Inhalation**

Remove to fresh air. If breathing has stopped artificial respiration should be started. Oxygen may be administered, if available. Call a physician. Never give anything by mouth to an unconscious person.

### SECTION 8 - SPECIAL PROTECTION INFORMATION

<table>
<thead>
<tr>
<th>Respiratory Protection</th>
<th>None Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation Requirements</td>
<td><img src="X" alt="Local Exhaust" /> Mechanical</td>
</tr>
<tr>
<td>Protective Goggles</td>
<td>Rubber/PVC</td>
</tr>
<tr>
<td>Other Protective Clothing</td>
<td>Normal work clothing covering arms and legs.</td>
</tr>
</tbody>
</table>

### SECTION 9 - SPILL OR LEAK PROCEDURES

**Steps to be Taken if Released or Spilled**

Stop spill at source. Prevent run off. Mop, shovel, pump and/or absorb with inert material and place in sound containers. Rinse remaining residue with excess water.

**Waste Disposal Methods**

Dispose of in an approved waste facility according to Federal, State and local regulations.

### SECTION 10 - STORAGE AND HANDLING INFORMATION

**Precautions to be Taken in Handling and Storage**

Do not expose product to excessive heat or near freezing temperatures. Handle all containers carefully. Triple rinse all empty containers to remove all residual product. Wash thoroughly after handling.