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.  
Emergency Telephone No.  (312) 247-2000

Address  
1201 Sentry Dr.  Waukesha, WI 53186  
(414) 547-2246

Trade Name  Guardian II

Chemical Family

Product Type  Disinfectant Cleaner/Sanitizer

Formula  Compounded Product

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME/COMMON NAME  CAS NO.  PERCENT (optional)  TLV (Source)
Silicic Acid – Sodium Salt  1344-09-8  < 5%  2.0mg/m³  *
Alkyl Dimethyl Benzyl Ammonium Chloride  68391-01-5  < 2%  Not Established
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride  68956-79-6  < 2%  Not Established

* As NaOH

SECTION 3 - PHYSICAL DATA

Boiling Point (°F)  212°F
Specific Gravity (15°/15°)  1.080
Vapor Pressure (mmHg)  Not Determined
Vapor Density (Air = 1)  Not Determined
Solubility in Water  Complete
Emulsifiable or dispersible  None
Insoluble  Slight
Evaporation Rate (vs H₂O)  Faster
Slower  About the Same
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 Boiling
Flammable  Not
Upper  Lower
Flame Limits  Determined
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

Threshold Limit Value - Product (See Section 2 for Ingredient TLV)
☐ None Established ☐ Not Applicable

Primary Routes of Exposure
☐ Eye ✗ Skin ☐ Oral ☐ Inhalation ☐ Other

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
Carcinogen or Suspect Carcinogen Ingredients:
☐ NTP ☐ IARC ☐ OSHA ✗ None

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

Respiratory Protection
☐ None Required

Ventilation Requirements
☐ Local Exhaust ✗ Mechanical ☐ Other

Protective Gloves
Rubber/PVC

Eye Protection
Safety Glasses/Goggles

Other Protective Clothing
Normal work clothing covering arms and legs.

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.