MATERIAL SAFETY DATA SHEET  
(Prepared According to 29 CFR 1910.1200)  
AUG 01 1994

SECTION 1 - PRODUCT IDENTIFICATION
Distributor: PALMER COMPANY, INC.  
Emergency Phone: 414/547-2245  
Address: P. O. Box 737, 1201 Sonty Dr., Waukesha, WI. 53186  
Trade Name: PALM-X  
Product Type: Disinfectant

SECTION 2 - INGREDIENTS
CHEMICAL NAME/COMMON NAME | CAS NO. | PERCENT(optional) | TLV(Source)
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Alkyl Dimethyl Benzyl Ammonium Chloride | 68391-01-5 | 5% | Not Established
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride | 68956-79-6 | 5% | Not Established

SARA HAZARD: TITLE III, SECTION 313: Contains no Section 313 listed substances subject to reporting.

SECTION 3 - PHYSICAL DATA
SOLVING POINT (°F) | Specific Gravity (H2O=1.0) | 212°F | 0.992 ± 0.005 | PH | 7.4 ± 0.5
Vapor Pressure (mm Hg) | Not Determined | Not Determined | Vapor Density (Air=1) | Not Determined | Solubility in water | Soluble | Insoluble | Insoluble or Incompatible | Miscible (or Dispersible) | Slightly or Partially
Evaporation Rate (vs. H2O) | Faster | Faster | About the Same | Appearance and Odor | Clear liquid with characteristic odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA
Flash Point (T.C.C.) | Water Spray (Fog); Dry Chemical; CO2; Foam
Extinguishing Media | Do not enter confined fire-spaces without protective clothing and self-contained air supply.
Special Fire-fighting Procedures | None
Unusual Fire and Explosion Hazards | Stable
Stability | Strong oxidizers. Do not mix with chlorinated detergents (bleach).
Hazardous Decomposition Products | Burning may produce carbon monoxide, carbon dioxide and unidentified organic compounds.

SECTION 5 - REACTIVITY DATA

SECTION 6 - HEALTH HAZARD DATA
Primary Routes of Exposure | Eye | Eye | Skin | Skin | Oral | Ingestion | Inhalation | Other
Signs and Symptoms of Overexposure (Acute) | Prolonged or repeated contact of concentrated product with skin and/or eye may cause irritation, reddening and possible corneal damage. High vapor concentrations are irritating to eyes and respiratory tract. Ingestion may cause burns of mucous membranes, nausea, vomiting and narcotic effects.
Medical Conditions Aggravated by Overexposure | None currently known.
Signs and Symptoms of Overexposure (Chronic) | None currently known.
Carcinogenic or Suspect Carcinogen ingredients | 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. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

SECTION 8 - SPECIAL PROTECTION INFORMATION
Respiratory Protection | Not required under normal use condition. Use with adequate ventilation.
Ventilation Requirements | Local Exhaust | Mechanical | Other | Eye Protection | Safety Glasses/Goggles
Protective Gloves | Rubber/PVC | Work clothing covering arms and legs as required to minimize contact.

SECTION 9 - SPILL OR LEAK PROCEDURES
Steps to be Taken if Released or Spilled | Eliminate all sources of ignition. 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.

SECTION 10 - STORAGE AND HANDLING INFORMATION
Precautions to be Taken in Handling and Storage | WARNING: Combustible liquid. Store in a cool, fire resistant area away from oxidizing materials. Ground all equipment and provide adequate ventilation. Handle all containers carefully. Follow label directions as to storage and disposal.

The health hazards given on this material safety data sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the diluted product under conditions of ordinary use.

DATE PREPARED: 8/13/92

HMIS HEALTH | HAZARD | RATING
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2 | 2 | 0 - LEAST
1 - SLIGHT | 2 - MODERATE | 3 - HIGH | 4 - EXTREME