

# MATERIAL SAFETY DATA SHEET

(SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable  
Not Est. = Not Established  
Prop. = Proprietary

## SECTION 1 - MANUFACTURER / DISTRIBUTOR INFORMATION

**Product Name:** LEMON-QUAT One Step Disinfectant Germicidal Detergent and Deodorant **Product #:** 0235  
**Supplier's Name:** National Chemical Laboratories of PA, Inc.  
**Supplier's Address:** 401 N. 10<sup>th</sup> Street - Philadelphia PA 19123  
**HMIS Hazard Code:** Health: 2 Flammability: 0 Reactivity: 0 PPE: B  
**Chemical Family:** Disinfectant Cleaner  
**D.O.T. Shipping Name:** Disinfectant Liquid Corrosive, NOS (Quaternary Ammonium Compound) **Hazard Class:** 8 **D.O.T. ID#:** UN1903  
**Emergency Phone #:** CHEM-TEL (800) 255-3924  
**Chemical Name:** N.A. Proprietary Blend  
**Formula:** N.A. Blended Product

## SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% Concentration Range	Hazard Ratings (TLV/PEL)
n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	68424-85-1	PROP.	N/A
Didecyl dimethyl ammonium chloride	7173-51-5	PROP.	N/A

## SECTION 3 - PHYSICAL DATA

**Specific Gravity:** 1.000  
**Vapor Density:** Estimated to be heavier than air  
**Odor:** Lemon  
**Vapor Pressure:** Not determined  
**Solubility in Water:** Complete  
**Evaporation Rate:** Not Determined  
**Appearance:** Thin, Clear, Yellow Liquid

## SECTION 4 - FIRE AND EXPLOSION DATA

**Flash Point (°C):** None when heated to 105°C (Tag Closed Cup)  
**Upper and Lower Flame Limits:** Not determined.  
**Fire fighting Equipment & Instructions:** Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.  
**Extinguishing media:** Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.  
**Hazardous Combustion Products:** Irritating and toxic gases or fumes may be released during a fire.  
**Unusual Fire & Explosion Hazards:** Combustion products are toxic.

## SECTION 5 - HEALTH HAZARD DATA

**Potential Health Effects:** **Skin:** Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through the skin. **Eyes:** Causes burns and may result in permanent injury to eyes including blindness. **Inhalation:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled. **Ingestion:** Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death. **Chronic:** Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.  
**First Aid Measures:** **Eyes:** Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once. **Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **Inhalation:** If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. **Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 6 - REACTIVITY DATA

**Stability:** Material is stable.  
**Conditions to Avoid:** Keep away from heat and strong oxidizing agents.  
**Incompatibility:** Strong oxidizing agents (may result in fire.), reducing agents.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen chloride vapors.  
**Hazardous Polymerization:** Will not occur.

## SECTION 7 - SPILL OR LEAK PROCEDURES

**Spill and Leak Procedures:** **Emergency Action:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). **Spill Cleanup:** Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
**Large Spills:** Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.  
**Waste disposal method:** This substance, when discarded or disposed of, is a characteristic hazardous waste according to the Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information present in this MSDS incomplete, inaccurate or otherwise inappropriate. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

**Engineering Controls:** Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.  
**Personal Protective Equipment:** **Eyes/Face:** Wear chemical goggles. Use a face shield if splashing is possible. **Skin:** Use impervious gloves (rubber or neoprene). Wear suitable protective clothing. **Respiratory:** If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSNA approved respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. **General:** Eye wash fountain and emergency showers are recommended.

## SECTION 9 - SPECIAL PRECAUTIONS

**Handling Procedures:** Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Wash thoroughly after work using soap and water.  
**Storage Procedures:** Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.  
**Other Precautions:** It is a violation of federal law to use this product in a manner inconsistent with its labeling. Keep out of reach of children. For professional use only.

The information contained in this MSDS was obtained from current and reliable sources, however the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of this company, it is not responsible for loss, injury and expense arising out of the product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may be covered by this MSDS. The user is responsible for full compliance.

Date Prepared - 03/15/10 By: C.V.