

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. 10th Street - Philadelphia, PA 19123			Emergency Phone No	1 (800) 255-3924
HMIS Hazard Code	Health 2	Flammability 0	Phys Hazard 0	Chemical Name	N.A. Proprietary Blend
Chemical Family	Disinfectant Cleaner			Formula	N.A. Blended Product
DOT Shipping Name	Not Regulated			Hazard Class	N/A
				PKG Group	
				DOT ID #	N/A

Section 2 - Hazardous Ingredients

CHEMICAL NAME	CAS NUMBER	% Concentration Range	ACGIH	Exposure Limit TLV/PEL
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	PROP.		N/A
Didecyl dimethyl ammonium chloride	7173-51-5	PROP.		N/A

Section 3 - Physical Data

Boiling Point (F)		Specific Gravity	1.00
Vapor Pressure	Not determined	Evaporation Rate	Not determined
Vapor Density	Estimated to be heavier than air	pH	
Solubility in Wate	Complete	pH(1)	
Appearance	Thin, Clear Yellow Liquid	pH(2)	
Odor	Lemon	VOC Content	

Section 4 - Fire and Explosion Data

		Flammable Limits	Not determined	LEL	UEL
Fire Fighting Equipment	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.				
Unusual Fire	Explosion Hazards	Combustion products are toxic.			
Hazardous Combustion Products		Irritating and toxic gases or fumes may be released during a fire.			

Section 5 - Health Hazard Data

Routes of Entry	Inhalation	☒	Skin	☒	Ingestion	☒
Effects of Over exposure	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					
Emergency and First Aid Procedures	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.					
Conditions Aggravated by Exposure	Threshold Limit Value					Not Est.
Listed						
Statement regarding Green Seal, Inc. Certification						

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.
Flash Point (F)	None when heated to 105°C (Tag Closed Cup)
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, hydrogen chloride vapors.

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Section 7 - Spill and Leak Procedures

Spill Steps	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

Respiratory Protection	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.
Ventilation	Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.
Protective Gloves	Use impervious gloves (rubber or neoprene).
Eye Protection	Wear chemical goggles. Use a face shield if splashing is possible.
Other Protective Equipment	Wear suitable protective clothing. Eye wash fountain and emergency showers are recommended.
Work /Hygienic Practices	

Section 9 - Special Precautions

Precautions Handling Storage	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. 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 Commercial and Industrial Use Only

CA Proposition 65 Statement

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	5/23/2013	Prepared By	J.B.
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