



LEMON-QUAT

One Step Disinfectant Germicidal Detergent and Deodorant

DESCRIPTION

This product is a one-step disinfectant cleaner and deodorant designed for general cleaning, disinfecting, deodorizing, and controlling mold and mildew on hard, non-porous environmental surfaces. It cleans quickly, removing dirt, grime, mold, mildew, body oils and other common soils found in hospitals, nursing homes, schools and colleges, day care centers, medical offices, funeral homes, veterinary clinics, pet shops, animal life science laboratories, hotels, motels, public areas and restrooms. It (also) eliminates odors leaving (restroom) surfaces smelling clean and fresh. Use where odors are a problem. This product may be used on washable hard, non-porous surfaces such as: floors, walls, glass, laminated surfaces, metal, stainless steel, glazed porcelain, plastic, chrome, vinyl, enameled surfaces, painted woodwork.

PRODUCT FEATURES / BENEFITS

- Pleasantly fragranced / Leaves behind a pleasant lemon fragrance
- Multiple surface compatibility / Safe to use on any water washable surface
- Broad spectrum bactericidal activity / Effectively kills disease causing pathogenic organisms
- Neutral range pH / Use for daily maintenance of finished floors without affecting gloss
- Cleans, disinfects, and deodorizes in one operation / Easy one-step operation saves time and reduces inventory

SPECIFICATIONS

Active Ingredients	Dual Quaternary
Color	Yellow
Odor	Lemon
pH (Concentrate).....	7.5 ± 1.0
pH (Use Dilution)	7.5 ± 1.0
Specific Gravity (g/cc)	1.00 ± 0.01

EFFICACY CLAIMS

VIRUCIDAL CLAIMS

- Hepatitis B Virus
- Hepatitis C Virus
- Herpes simplex Virus Type 1 ATCC VR-773
- Herpes Simplex Virus Type 2 ATCC VR-734
- Human Coronavirus
- Human Immunodeficiency virus type 1 (HIV 1)
- Influenza A virus ATCC VR-544
- Respiratory syncytial virus ATCC VR-26
- Canine Parvovirus (CPV) at 8 oz. per gallon
- Canine Distemper virus ATCC VR-128
- Feline Picornavirus ATCC VR-649
- Infectious Bovine Rhinotracheitis virus A
- TCC VR-188, Pseudorabies virus ATCC VR-135
- Transmissible Gastroenteritis virus
- Vaccinia virus ATCC VR-119

FUNGICIDAL CLAIM

- Aspergillus niger ATCC 16404
- Candida albicans ATCC 10231
- Trichophyton mentagrophytes ATCC#9533

BACTERIOCIDAL CLAIMS

- Bordetella bronchiseptica ATCC 10580
- Chlamydia psittaci ATCC VR-125
- Clostridium difficile-vegetative ATCC 9689
- Enterobacter aerogenes ATCC 13048
- Enterobacter cloacae ATCC 13047
- Escherichia coli ATCC 11229
- Fusobacterium necrophorum ATCC 27852
- Klebsiella pneumoniae ATCC 13883
- Listeria monocytogenes ATCC 19117
- Pasturella multocida ATCC 12947
- Proteus vulgaris ATCC 9920
- Pseudomonas aeruginosa ATCC 15442
- Salmonella enterica serotype pullorum ATCC 19945
- Salmonella enterica ATCC 4931
- Salmonella typhi ATCC 6539
- Salmonella typhimurium ATCC 23564
- Serratia marcescens ATCC 9103
- Shigella flexneri ATCC 9380
- Shigella sonnei ATCC 25931
- Staphylococcus aureus ATCC 6538
- Methicillin Resistant Staphylococcus aureus (MRSA) ATCC 33592
- Staphylococcus epidermidis ATCC 14990
- Streptococcus pyogenes ATCC 19615
- Vancomycin Resistant Enterococcus faecalis (VRE) ATCC 51299
- Vancomycin Intermediate Resistant Staphylococcus aureus (VISA) ATCC 5836



DISINFECTANT

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This product is not for use on critical or semi-critical medical device surfaces.

DISINFECTION General Disinfectant-Non-medical (schools, restaurants, food services, dairies, farm, beverage and food processing plants): Add 4 ounces of this product to gallon of water. This product is not to be used as a disinfectant on glassware, dishes or interior surfaces of appliances.

CLEANING AND DISINFECTION: For heavily soiled areas, a precleaning step is required. For all general cleaning and disinfection, use 4 ounces of this product per one gallon of water (1:32 solution). Apply this product using a cloth, mop or pressure sprayer so as to thoroughly wet surface to be cleaned (disinfected). For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes and then let air dry. Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted. Note: All food contact surfaces such as appliances and kitchen countertops must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances. For Disinfecting Hard, Non-Porous Surfaces Against Avian Influenza A: For use in homes, hospitals, hotels, motels, schools the directions for use for hospital disinfection must be followed using a rate of 4 oz per gallon of water. For use in animal housing facilities follow the animal premise directions.

NON-ACID TOILET BOWL & URINAL DISINFECTANT CLEANER DIRECTIONS Remove gross filth prior to disinfection. From Concentrate: Add 3 ounces to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim. Repeat and allow solution to stand for 10 minutes and flush. From Use Solution: Preclean. Empty toilet bowl or urinal and apply 4 ounces per gallon (32 milliliters per liter) use solution (or equivalent use dilution) to exposed surfaces, including under the rim with a cloth, mop, sponge or sprayer. Allow solution to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device and swab all areas after spraying.

FUNGICIDAL DIRECTIONS: For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Apply to hard, non-porous surfaces at a 1:64 dilution (2 ounces per gallon of water) (or equivalent use dilution), thoroughly wetting all surfaces for a contact time of at least 10 minutes. Wipe surfaces or let air dry. Mold and mildew control: To control the growth of mold and mildew and their odors, use at a rate of 2 ounces per gallon of water on hard, non-porous surfaces, apply use solution to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears. Allow surface to remain wet for 10 minutes.

***KILLS HIV, HBV AND HCV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling on inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1, (HIV-1), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: Clean up should always be done wearing protective latex gloves, gowns, masks and eye protection. **Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product. **Contact Time:** Leave surface wet for 10 minutes with 2 ounces per gallon (16 milliliters per liter) use solution (or equivalent use dilution). **Disposal of Infectious Materials:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and grooming Establishment/ Tack Shops Disinfection Directions: For cleaning and disinfecting the following hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces per gallon of water (8 oz per gallon of water against CPV and Porcine Parvovirus) of water for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment that dispenses food or water with soap or detergent, and rinse with potable water before reuse.

SAFETY INFORMATION

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **IF ON 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. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** 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. **IF INHALED:** Move person 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Registered with the Environmental Protection Agency



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TDS-0235-0513


SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	LEMON-QUAT Disinfectant, Cleaner, Mildewtat, Fungicide, Virucide, Deodorizer
Other means of identification	0235
Recommended use	Disinfectant.
Recommended restrictions	EPA Registered Product. For commercial and industrial use only.
Manufacturer / Importer / Supplier / Distributor Information	
Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	Classification	Category
Physical Hazards	Not Classified	
Health Hazards	Serious eye damage/eye irritation	2A
	Skin corrosion/irritation	2
OSHA defined hazards	Not Classified.	
Label Elements		
Hazard Symbol		
Signal Word	Warning	
Hazard Statement	Causes skin irritation. Causes serious eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.	
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	4-Nonylphenol, branched, ethoxylated	127087-87-0	1 - 3
	Didecyl dimethyl ammonium chloride	7173-51-5	1 - 3

Section 4 - First-aid Measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if irritation develops and persists.
Most Important symptoms /effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions Move containers from fire area if you can do it without risk.
General fire hazards No unusual fire or explosion hazards noted.
Specific Methods Use standard fire fighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up This product is miscible in water.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).
Biological limit values No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection Wear appropriate chemical resistant gloves.
Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance
Physical state Liquid.
Form Clear, thin liquid.
Color Yellow.
Odor Lemon.
Odor threshold Not available.

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pH	7.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	None to boiling.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Not available.
Relative density	1.00 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	Completely soluble.
Partition Coefficient n-octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	<10 cSt
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects.

Acute toxicity Not expected to be acutely toxic.

Components	Level	Type	Code	Species	Results
Didecyl dimethyl ammonium chloride (CAS 7173-51-5)	Acute	Dermal	LD50	Rabbit (Male / Female)	3140 / 2730 mg/kg
	Acute	Oral	LD50	Rat (Male / Female)	238 / 331 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/ eye irritation	Causes serious eye irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

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Chronic effects Prolonged inhalation may be harmful.

Section 12 - Ecological Information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water log (Kow)

Components	Results
4-Nonylphenol, branched, ethoxylated (CAS 127087-87-0)	2.1 - 3.4 (Calculated)

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 - Disposal considerations

Disposal instructions PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying.
(For containers 5 gallons or less):
Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

Dispose in accordance with applicable federal, state, and local regulations.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Waste codes should be assigned by the user based on the application for which the product was used.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations This product is a U.S. EPA registered pesticide.
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
CERCLA Hazardous Substance List (40 CFR 302.4)	Not Listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard Categories	
Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
SARA 302 Extremely hazardous substance	Not listed.
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting)	Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List	Not listed.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

US state regulations

US.Massachusetts RTK - Substance List	Not regulated.
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US.New Jersey Worker and Community Right-to-Know Act	Not listed.
US.Pennsylvania RTK - Hazardous Substances	Not listed.
US.Rhode Island RTK	Not regulated.
US - California Proposition 65	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Issue date	3/9/2015
Version #	01
Disclaimer	<p>The information contained herein 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 for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS.</p> <p>Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.</p>

DISINFECTION PERFORMANCE: This product kills the following bacteria in 10 minutes at 4 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Acinetobacter baumannii, Acinetobacter lwoffii, Bordetella bronchiseptica, Chlamydia psittaci, Citrobacter freundii, Enterobacter agglomerans, Enterobacter aerogenes, Enterobacter cloacae, Escherichia coli, Escherichia coli 0111:H8, Escherichia coli (Carbapenem Resistant), Escherichia coli (Extended Spectrum B-Lactamase) (ESBL), Escherichia coli (Tetracycline Resistant), Enterococcus faecalis, Enterococcus hirae, Fusobacterium necrophorum, Klebsiella oxytoca, Klebsiella pneumoniae (NDM-1 positive), Listeria monocytogenes, Micrococcus luteus, Pasturella multocida, Proteus vulgaris, Pseudomonas aeruginosa, Pseudomonas aeruginosa (Tetracycline Resistant), Pseudomonas cepacia, Salmonella enteritidis, Salmonella enterica serotype pullorum, Salmonella typhimurium, Serratia marcescens, Shigella flexneri, Shigella sonnei, Staphylococcus aureus, Staphylococcus aureus (CA-MRSA) (Genotype USA 300), Staphylococcus aureus (CA-MRSA) (Genotype USA 400), Staphylococcus aureus (MRSA), Staphylococcus epidermidis, Staphylococcus epidermidis (Antibiotic resistant), Streptococcus agalactiae, Staphylococcus haemolyticus, Streptococcus pneumoniae (Penicillin Resistant), Streptococcus pyogenes, Streptococcus mutans, Enterococcus faecalis (VRE), Vibrio cholera, Yersinia enterocolitica.

VIROCIDAL* PERFORMANCE: This product kills the following viruses in 10 minutes at 4 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Avian Influenza A (H5N1) Virus, Avian Influenza A (H3N2) Virus, Cytomegalovirus, Coronavirus (SARS-associated), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Virus Type 1, Herpes Simplex Virus Type 2, Human Coronavirus, Human Immunodeficiency Virus Type 1 (HIV 1), Influenza A (H1N1) Virus, Influenza A Virus (H3N2) (Hong Kong Strain), Respiratory Syncytial Virus, Vaccinia Virus.

ANIMAL PREMISE VIROCIDAL* PERFORMANCE: This product kills the following viruses in 10 minutes at 4 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Avian Infectious Bronchitis Virus, Avian Influenza A Virus (H5N1), Avian Influenza A Virus (H3N2), Canine Coronavirus, Canine Distemper Virus, Feline Picornavirus, Infectious Bovine Rhinotracheitis Virus, Pseudorabies Virus, Swine Influenza A Virus (H1N1), Transmissible Gastroenteritis Virus (TGE).

This product kills the following viruses in 10 minutes at 16 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Canine Parvovirus** (CPV), Rabies**, Porcine Parvovirus**.

** Indicates that a dilution of 16 oz. per gal. of water is required for this claim.

NON-FOOD CONTACT SANITIZING PERFORMANCE: This product is an effective one-step sanitizer in 3 minutes at 4 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Klebsiella pneumoniae, Staphylococcus aureus.

FUNGICIDAL PERFORMANCE: This product kills the following fungi in 10 minutes at 4 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Candida albicans, Trichophyton mentagrophytes (Athlete's foot fungus).

MILDEWSTATIC PERFORMANCE: This product controls the following mold in 10 minutes at 4 oz. per gal. of water on hard, non-porous surfaces: Aspergillus niger.

This product is for use on hard, non-porous surfaces in hospitals, healthcare facilities, nursing homes, business, office buildings, public restrooms, institutions, schools, colleges, commercial, industrial sites, veterinary clinics and other animal care facilities. This product is a one-step hospital-use disinfectant cleaner and deodorant designed for general cleaning, disinfecting, deodorizing and controlling mold and mildew on hard, non-porous surfaces. This product is formulated to provide effective cleaning strength that will not dull high gloss floor finishes with repeated use.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This product is not for use on medical device surfaces.

FOR USE AS A ONE-STEP, GENERAL, HOSPITAL, MEDICAL DISINFECTANT, FUNGICIDE, VIROCIDE*, CLEANER: Pre-clean heavily soiled areas. Apply use solution of 4 oz. of this product per gal. of water to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Wipe dry with a clean cloth or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished. Prepare a fresh solution daily or when visibly dirty.

***KILLS HIV, HBV AND HCV ON PRE-CLEANED HARD, NON-POROUS SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of hard, non-porous surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

Personal Protection: Wear protective latex gloves, gowns, masks and eye protection.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product.

Disposal of Infectious Materials: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time: Allow hard, non-porous surfaces to remain wet for 10 minutes for all organisms.

NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS

NON-FOOD CONTACT SURFACE SANITIZING: Pre-clean heavily soiled areas. Add 4 oz. of this product per gal. of water. Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.



World Class Cleaning Solutions®

Lemon-Quat™

Disinfectant, Cleaner, Mildewstat, Fungicide, Virocide*, Deodorizer

For Hospitals, Nursing Homes, Commercial, Institutional, and Industrial Sites. Non-Dulling to Floors, Floor Finishes.

Effective in hard water up to 400 ppm hardness in the presence of 5% soil.

ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride..... 1.27%

Alkyl (60% C14, 40% C12, 10% C16)

Dimethyl Benzyl Ammonium Chloride..... 0.85%

OTHER INGREDIENTS:..... 97.88%

TOTAL:..... 100.00%

EPA REG. NO. 10324-157-2296 EPA EST. NO. 2296-PA-1

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

See side panel for additional precautionary statements.

NET CONTENTS: 1 GALLON / 3.79 LITERS

SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A ALGUIEN PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.

IF YOU DO NOT UNDERSTAND THE LABEL, FIND SOMEONE TO EXPLAIN IT TO YOU IN DETAIL.

National Chemical Laboratories, Inc.

401 N. 10th Street • Philadelphia, PA 19123 • (800) 628-2436 • Made in the USA.



Disinfectant

TO CONTROL MOLD/MILDEW: Pre-clean heavily soiled areas. Prepare use solution by adding 4 oz. of this product per gal. of water. Apply use solution to hard, non-porous surfaces for 10 minutes which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every seven days, or more often if new growth appears.

ANIMAL PREMISES: Prior to use of this product, remove all animals and feeds from areas to be treated, animal transportation vehicles, and enclosures, coops, crates, kennels, stables. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with soap or detergent and rinse with water.

FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIROCIDE*: Prepare a use solution of 4 oz. of this product per gal. of water for effectiveness against designated animal viruses on the label.

FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIROCIDE:** Prepare a use solution of 16 oz. of this product per gal. of water for effectiveness against designated animal viruses on the label.

Apply use solution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, by immersion, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Immerse all halters and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the use solution. Treated surfaces must remain wet for 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

NON-ACID TOILET BOWL AND URINAL DISINFECTANT/CLEANING DIRECTIONS

Remove heavy soil prior to disinfection.

From a Concentrate: Add 4 oz. of this product directly into the water in the toilet bowl. Brush thoroughly over exposed surfaces and under the rim with a toilet brush/mop, cloth, or sponge. Allow solution to stand for 10 minutes and flush.

From a Use Solution: Empty water out of toilet bowl or urinal and apply use solution prepared by adding 4 oz. of this product per gal. of water to exposed surfaces, including under the rim with a toilet brush/mop, cloth, or sponge, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Brush or swab thoroughly, then allow solution to stand for 10 minutes and flush.

FOR HEAVY DUTY CLEANING OF TOILET BOWLS AND URINALS: Pre-clean heavily soiled areas. Empty water from toilet bowl or urinal and apply a use solution of 8 oz. of this product per gal. of water to exposed surfaces including under the rim with toilet brush/mop, cloth, or sponge, hand pump trigger spray device, coarse trigger spray device. For sprayer application, spray 6-8 inches from surface. To aid in soil removal, allow to soak. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush.

TO CLEAN WATERFREE/WATERLESS URINALS: Remove any debris from the urinal. Spray 4 - 8 oz. of use solution onto urinal surface. To prepare use solution: Add 4 oz. per gal. of water. DO NOT spray product directly onto cartridge. Wipe surface to clean. Change cartridge as needed. The unit is ready for use.

GENERAL DEODORIZATION: To deodorize, apply 4 - 8 oz. of this product per gal. of water to hard, non-porous surfaces. Wipe up excess liquid with a paper towel or allow to air dry.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

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