

DEC-QUAT® 200C

Quaternary Ammonium

Sterile Pharmaceutical Clean Room Formula

DEC-QUAT_200C_DQ200C-E

Revised 19 December, 2013

Technical Data File



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DEC-QUAT 200C

PRODUCT DESCRIPTION

DEC-QUAT 200C is a fifth generation quaternary ammonium solution for use in pharmaceutical, biotechnology, medical device manufacturing facilities, healthcare facilities, and hospitals. This product is a One Step Disinfectant, Non-Food Contact Sanitizer, Cleaner, Mildewstat, Fungicide, Virucide* and Deodorizer for use against a broad spectrum of bacteria and viruses. It is effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% serum contamination.

DEC-QUAT 200C is a phosphate-free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazards of cross-contamination. This product is filled in ISO 5 (Grade A/B, former Class 100), filtered at 0.2 microns, and subsequently terminally sterilized to 10⁻⁶ sterility assurance level. It is available in several container sizes both sterile and non-sterile. Each sterile container is double bag packaged and delivered each time with lot specific Certificate of Analysis, Certificate of Irradiation, and Certificate of Sterility. DEC-QUAT 200C products are completely traceable and have been completely validated for sterility and shelf life.

ABCD CLEANROOM INTRODUCTION SYSTEM™

The ABCD Cleanroom Introduction System is a packaging system that allows operators/users to take the package through each level of classified areas by simply removing a bag. Each bag acts as barrier protecting the finished product from viable and non-viable contamination. This prohibits the need for decontaminating the outer bag prior to entering a cleaner area. In this packaging system each container is individually packaged into two easy tear bags, and all the individually packaged containers are then placed into two liner bags.

The SimpleMix® System Technology Alternative

Veltek Associates, Inc. has developed the SimpleMix System Technology to eliminate measuring and additional containers. It provides for the transfer of the sterile concentrate and sterile water in a sealed container to the aseptic area. The system container is double bag packaged for easy transfer and eliminates all internal and external sterility concerns. It assures the accurate measurement of a concentrate. The Patented (US Patent 6851580, 7066354) SimpleMix System Gallon and 16oz Systems provide a sealed multi-chamber container that when activated mixes the solution to the use dilution. The opening on the top of the gallon size contains the concentrate and the bottom reservoir contains the USP WFI Quality Water. The 16 ounce side container houses the concentrate and the bottom reservoir houses the USP WFI Quality Water. Just open the small chamber cap, push the plunger container completely down until the bottom pops open and the bellows are compressed. The solution and water mix together. The system design permits the easy transfer of the product to the aseptic manufacturing area without concern for the transfer of contamination. **See SimpleMix Technical Data Report Available Upon Request.**

ORDERING INFORMATION

Order#	Description	Qty/Cs
DQ200C-01-E	DEC-QUAT 200C 1 Gallon Concentrate Non-Sterile	4
DQ200C-02-E	DEC-QUAT 200C 1 Gallon Concentrate Sterile	4
DQ200C-03-2Z-E	DEC-QUAT 200C 2oz Concentrate Sterile	24
DQ200C-03-8Z-E	DEC-QUAT 200C 8oz Concentrate Sterile	24
DQ200C-04-2Z-E	DEC-QUAT 200C SimpleMix 1 Gallon Sterile	4
DQ200C-05-2Z-E	DEC-QUAT 200C SimpleMix 1 Gallon Non-Sterile	4
DQ200C-06-16Z-01-E	DEC-QUAT 200C SimpleMix 16oz Sterile	12
DQ200C-07-16Z-01-E	DEC-QUAT 200C SimpleMix 16oz Non-Sterile	12
DQ200C-10-200L-2XI-E	DEC-QUAT 200C SimpleMix 200 Liter Drum with concentrate located in cubcontainer, Sterile	1

OTHER TECHNICAL DATA AVAILABLE (UPON REQUEST):

- Validation Report
- Specific Test Reports (Consult VAI)
- MSDS

Veltek Associates, Inc.

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DEC-QUAT 200C

Sterile Pharmaceutical Clean Room Formula Quaternary Ammonium

SPECIFICATIONS

Specification

DEC-QUAT 200C

Processing:	Fill in an ISO 5 (Grade A/B, former class 100)
Sterilization:	Gamma Irradiation at 10 ⁻⁶ SAL
Irradiation Dose:	25.0 – 50.0 kGy
Appearance:	Clear, colorless to straw colored liquid
Odor:	Organic
Physical State	Liquid
pH:	6.0-10.5
Assay:	16.9-17.7
Specific Gravity:	1.006 (water=1)
Flash Point:	>221°F (>105°C) Tag Closed Cup
Chemical Stability:	Material is stable under normal conditions

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DEC-QUAT 200C

Sterile Pharmaceutical Clean Room Formula
Quaternary Ammonium

PRODUCT LABELING

Any specific product label is available upon request.

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 15 LEE BOULEVARD MALVERN, PA 19355-1234 USA
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VELTEK ASSOCIATES, INC.

VELTEK DEC PRODUCT LABEL COLORS

PRODUCT NAME	BOTTLE/CAN COLOR	LABEL BACKGROUND COLOR	BAR & USER INFO COLOR	TEXT COLOR
DEC-AHOL WFI FORMULA 70% AEROSOL	COOL GREY	LIGHT BLUE		
DEC-AHOL WFI FORMULA 70% TRIGGER SPRAY, 1 & 5 GALLON	WHITE	LIGHT BLUE		
DEC-AHOL WFI FORMULA 70% SQUEEZE BOTTLE	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
DEC-AHOL WFI FORMULA 70% ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
DEC-AHOL WFI 60%	WHITE	LIGHT BLUE		
DEC-AHOL WFI 91%	WHITE	LIGHT BLUE		
DEC-AHOL WFI 99%	WHITE	LIGHT BLUE		
STER-AHOL WFI AEROSOL	WHITE	PRINTED CAN WHITE		
STER-AHOL WFI TRIGGER SPRAY, 1 & 5 GALLON	WHITE	WHITE		
DEC-HAND STERILE	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
DEC-HAND NON-STERILE	CLEAR	LIGHT BLUE		
DEC-HAND ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
STERI-OIL	WHITE	WHITE		
STERI-BUFFER	CLEAR	PRINTED BOTTLE		
DEC-CYCLE	WHITE	LIGHT BLUE		
DEC-CLEAN	WHITE	LIGHT BLUE		
DEC-QUAT 100	WHITE	LIGHT BLUE		
DEC-QUAT 200C	WHITE	LIGHT BLUE		
DEC-QUAT 200V	WHITE	LIGHT BLUE		
HYPO-CHLOR 0.25%	WHITE	WHITE		
HYPO-CHLOR 0.52%	WHITE	WHITE		
HYPO-CHLOR 5.25%	WHITE	MEDIUM BLUE		
STERI-PEROX 3%	WHITE	WHITE		
STERI-PEROX 6%	WHITE	WHITE		
DEC-SPORE 200 PLUS (SPORICIDE)	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
DEC-SPORE 200 PLUS (DISINFECTANT)	WHITE SEMI-TRANSPARENT	LIGHT BLUE		
STEEL-BRIGHT	WHITE	WHITE		
STERI-SILICON	WHITE	BLACK		
DEC-GLASS	WHITE	LIGHT BLUE		
VAI WFI QUALITY WATER	WHITE	WHITE		
STERI-WATER	WHITE	WHITE		

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Presented from the Master Label dated 24 July 2013

DEC-QUAT 200C

Quaternary Ammonium

One Step Disinfectant

Germicidal Detergent and Deodorant

Disinfectant, Non-Food Contact Sanitizer, Cleaner, Mildewstat, Fungicide, Virucide*, Deodorizer (Odor Counteractant) (Odor Neutralizer) for Hospitals, Commercial, Institutional, and Industrial use.

Effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% serum contamination.

Non-Dulling to Floors (Floor Finishes).

Made in the U.S.A.

Meets OSHA Bloodborne Pathogen Standard for HIV, HBV and HCV.

ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride.....10.14%

n-Alkyl (C₁₄ 50%, C₁₂ 40%, C₁₆ 10%)

dimethyl benzyl ammonium chloride.....6.76%

INERT INGREDIENTS:.....83.10%

TOTAL100.00%

Packaged and Sterilized by:

Veltek Associates, Inc.

15 Lee Boulevard

Malvern, PA 19355-1234 USA

Tel: 610-644-8335

CareChem24 Emergency Response Number: +011 44-208-762-8322

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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PHYSICAL OR CHEMICAL HAZARDS:

Do not mix with oxidizers, anionic soaps and detergents. Do not use or store near heat or open flame.

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 eyes 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.

ORGANISM LIST

(**Note:** For reference use only. This is a list of all organisms covered by this label. Please see appropriate Directions for Use for proper use dilution. Inclusion of targeted organism on final label is mandatory.)

DISINFECTION PERFORMANCE IN INSTITUTIONS (Hospitals and Other Health Care Institutions): This product is effective against:

Acinetobacter baumannii (ATCC 19003)
Acinetobacter lwoffii (ATCC 9957)
Acinetobacter lwoffii (ATCC 15309)
Bordetella bronchiseptica (ATCC 10580)
Chlamydia psittaci (ATCC VR-125)
Citrobacter freundii (ATCC 8090)
Enterobacter agglomerans (ATCC 27155)
Enterobacter aerogenes (ATCC 13048)
Enterobacter cloacae (ATCC 13047)
Escherichia coli (ATCC 11229)
Escherichia coli O111:H8 (ATCC BAA-184)
Extended Spectrum B-Lactamase (ESBL) *Escherichia coli* (ATCC BAA-196)
Tetracycline Resistant *Escherichia coli* (ATCC 47041)
Enterococcus faecalis (ATCC 19433)
Enterococcus hirae (ATCC 10541)
Fusobacterium necrophorum (ATCC 27852)
Klebsiella oxytoca (ATCC 13182)
Klebsiella pneumoniae (ATCC 13883)
Klebsiella pneumoniae – ((NDM-1 positive) (New Delhi metallo-beta-lactamase)) (CDC 1000527)
Listeria monocytogenes (ATCC 19117)
Micrococcus luteus (ATCC 14452)
Micrococcus luteus (ATCC 4698)
Pasturella multocida (ATCC 12947)
Proteus vulgaris (ATCC 9920)
Proteus vulgaris (ATCC 13315)
Pseudomonas aeruginosa (ATCC 15442)
Tetracycline Resistant *Pseudomonas aeruginosa* (ATCC 27853)
Pseudomonas cepacia (ATCC 25416)
Salmonella enterica (ATCC 23564)

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Salmonella enterica (ATCC 10708)
Salmonella enteritidis (ATCC 4931)
Salmonella enterica serotype pullorum (ATCC 19945)
Salmonella typhi (ATCC 6539)
Salmonella typhimurium (ATCC 23564)
Serratia marcescens (ATCC 9103)
Serratia marcescens (ATCC 14756)
Shigella flexneri (ATCC 9380)
Shigella flexneri (ATCC 12022)
Shigella sonnei (ATCC 25931)
Staphylococcus aureus (ATCC 6538)
Staphylococcus aureus (ATCC 25923)
Staphylococcus aureus sub species aureus (ATCC 33586)
Staphylococcus aureus (ATCC 14154)
Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)
(Genotype USA400)
Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)
(Genotype USA300)
Methicillin Resistant *Staphylococcus aureus* (MRSA) (ATCC 33592)
Staphylococcus epidermidis (ATCC 14990)
Antibiotic resistant *Staphylococcus epidermidis* (ATCC 51625)
Streptococcus agalactiae (ATCC 13813)
Staphylococcus haemolyticus (ATCC 29970)
Streptococcus pneumoniae Penicillin Resistant (ATCC 51915)
Streptococcus pyogenes (ATCC 19615)
Streptococcus mutans (ATCC 25175)
Vancomycin Resistant *Enterococcus faecalis* (VRE) (ATCC 51299)
Vancomycin Intermediate Resistant *Staphylococcus aureus* (VISA) (HIP 5836)
Vibrio cholera (ATCC 11623)
Yersinia enterocolitica (ATCC 23715)

VIRUCIDAL* PERFORMANCE: This product is effective against:

Avian Influenza A (H3N2) virus (Avian Reassortant) (ATCC VR-2072)
Avian Influenza A (H5N1) virus
Cytomegalovirus
SARS-associated Coronavirus
Hantavirus
Hepatitis B Virus
Hepatitis C Virus
Herpes Simplex Virus Type 1 (ATCC VR-733)
Herpes Simplex Virus Type 2 (ATCC VR-734)
Human Coronavirus
Human Immunodeficiency Virus type 1 (HIV 1)
Influenza A virus (ATCC VR-544) (H3N2)
Influenza A (H1N1) virus (ATCC VR-1469) (Strain A/PR/8/34)
Respiratory syncytial virus (ATCC VR-26)

ANIMAL PREMISE VIRUCIDAL* PERFORMANCE: This product is effective against:

Avian Infectious Bronchitis virus Beaudette IB42
Avian Influenza A (H5N1) virus
Avian Influenza A (H3N2) virus (Avian Reassortant) (ATCC VR-2072)
Canine Coronavirus

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Canine Parvovirus (CPV) (2 oz. per gallon)
Canine Distemper virus (ATCC VR-128)
Feline Picornavirus (ATCC VR-649)
Infectious Bovine Rhinotracheitis virus (ATCC VR-188)
Mice (Parvovirus) (2 oz. per gallon) (*Not for use in CA*)
Porcine Parvovirus (2 oz. per gallon)
Pseudorabies virus (ATCC VR-135)
Rabies (2 oz per gallon)
Swine Influenza A (H1N1) virus (ATCC VR-333) (Strain A/Swine/Iowa/15/30)
Transmissible Gastroenteritis virus
Vaccinia virus (ATCC VR-119)

NON-FOOD CONTACT SANITIZING PERFORMANCE: This product is effective against:

Klebsiella pneumoniae
Staphylococcus aureus

FUNGICIDAL PERFORMANCE: This product is effective against:

Candida albicans (ATCC 10231)
Trichophyton mentagrophytes (ATCC 9533) (*athlete's foot fungus*) (*a cause of Ringworm*) (*a cause of Ringworm of the foot*)

MILDEWCDIAL PERFORMANCE: This product is effective against:

Aspergillus niger (ATCC 16404)

MARKETING CLAIMS

DEC-QUAT 200C is for use on hard, non-porous surfaces in hospitals and healthcare facilities, medical device manufacturing facilities, biotechnology firms, and pharmaceutical manufacturing facilities. When used as directed, this product is formulated for use on hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, hard nonporous surfaces of cervical collars and neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops, examination tables, X-ray tables, ambulance equipment/surfaces, and medical equipment surfaces.

DEC-QUAT 200C is designed to provide both general cleaning and disinfection for larger areas such as operating rooms and patient care facilities, and is a disinfectant and non-food contact surface sanitizer for Cleanroom and Laboratory areas to disinfect washable, hard, non-porous non-food contact surfaces such as Laminar-airflow equipment and BioSafety Cabinet work surfaces and exterior surfaces of the following: countertops, sinks, plumbing fixture surfaces, incubators, Refrigerators and Centrifuge surfaces of metal, stainless steel, glass, plastic (such as polystyrene or polypropylene), Formica®, and vinyl. This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces utilizing Influenza A (H1N1) virus. The product is also neutral (Neutral pH) and antibacterial.

DEC-QUAT 200C can be used as directed on hard, non-porous surfaces such as: sealed foundations, steps, plumbing fixtures, finished baseboards and windowsills. As well as other hard, non-porous surfaces such as: exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps.

This product is a phosphate-free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross-contamination on treated surfaces. It contains no abrasives, bleach, harsh acids, or phosphates, so it won't scratch surfaces. An economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking, it can also be applied through foaming apparatus, low-pressure sprayers and fogging systems. Follow the manufacturers' instructions when using this equipment.

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DEC-QUAT 200C delivers a non-acid disinfection performance in an economical concentrate. It is a no-rinse neutral pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor-saving step. The product is a complete, chemically balanced disinfectant/sanitizer that provides clear use solutions even in the presence of hard water.

This product is a proven one-step disinfectant, cleaner, sanitizer, fungicide, mildewstat, and virucide* as well as an effective bactericide, virucide* and fungicide in the presence of organic soil, 5% blood serum, and 400 ppm hard water. It is effective against a broad-spectrum of bacteria, is virucidal* (including HIV-1, HCV & HBV) and inhibits the growth of mold and mildew and their odors when used as directed.

DIRECTIONS FOR USE

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

DISINFECTION/GENERAL DISINFECTION/VIRUCIDAL**/FUNGICIDAL/MOLD AND MILDEW

PERFORMANCE IN INSTITUTIONS AND NON-MEDICAL FACILITIES: Mix ½ ounce of this product per 1 gallon of water 660 ppm active.

NON-FOOD CONTACT SANITIZING PERFORMANCE: Mix ½ ounce of this product per 1 gallon of water 660 ppm active. Treated surfaces must remain wet for 3 minutes. For heavily soiled areas, a preliminary cleaning is required. Apply solution to hard non-porous surfaces with a brush, cloth, mop, sponge, auto scrubber, mechanical spray device or by immersion so as to thoroughly wet surfaces. For sprayer applications, spray 6-8 inches from surface. Do not breathe spray.

FOR USE AS A ONE-STEP CLEANER/DISINFECTANT:

1. Pre-clean heavily soiled areas.
2. Apply ½ ounce of this product per 1 gallon of water 660 ppm active, or equivalent use dilution to hard, non-porous surfaces using a sponge, brush, cloth, mop, auto scrubber or mechanical spray device, hand pump, coarse pump, or trigger spray device, or by immersion. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
3. Rub with brush, cloth, or sponge.
4. To disinfect, all surfaces must remain wet for 10 minutes.
5. Rinse, wipe up excess liquid, and allow to air dry.
6. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution at least daily, or more often, if use solution becomes visibly dirty or soiled.

FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A, H5N1, H3N2, and INFLUENZA A, H1N1 VIRUS: For use in homes, hospitals, hotels, motels, schools animal premises, and other animal use sites, follow the *DISINFECTION/GENERAL DISINFECTION/VIRUCIDAL**/FUNGICIDAL/MOLD AND MILDEW PERFORMANCE IN INSTITUTIONS AND NON-MEDICAL FACILITIES* directions.

DISINFECTION/GENERAL DISINFECTION/VIRUCIDAL*/FUNGICIDAL/MOLD AND MILDEW USE DILUTION CHART – INSTITUTIONS and NON-MEDICAL

Ounces of DEC-QUAT 200C	Amount of Water
1/8 ounce	1 quart
¼ ounce	½ gallon
½ ounce	1 gallon
1½ ounces	3 gallons
2½ ounces	5 gallons
5 ounces	10 gallons

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DILUTION GUIDE:

For Hospital or Medical Environment claims	½ oz/1 gal. water
For General or Broad Spectrum claims	½ oz/1 gal. water
For Public Health Virucidal* claims	½ oz/1 gal. water
For Animal Virucidal* claims	½ oz/1 gal. water
For Non-Food Contact Sanitizing claims	½ oz/1 gal. water
For Mold and Mildew/Fungicidal claims	½ oz/1 gal. water

HOSPITAL/HEALTH CARE/INSTITUTIONAL

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product can be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

This product is a Hospital Use Disinfectant at ½ ounce of this product per 1 gallon of water (1:256 dilution) or equivalent use dilution modified in the presence of 400 ppm hard water.

When used as directed at a 1:256 dilution, ½ ounce of this product per 1 gallon of water or equivalent use dilution, this product contains 660 ppm of active quaternary germicide, making it highly effective against a broad spectrum of pathogenic microorganisms including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew.

***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 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) (associated with AIDS), 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 must always be done wearing protective latex gloves, gowns, masks and eye protection. Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks and eye protection.

Cleaning Procedure: Blood and other body fluids (containing HIV-1, HBV and HCV) must be thoroughly cleaned from hard nonporous 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: Leave hard nonporous surfaces wet for 10 minutes.

SURGICAL INSTRUMENT PRESOAK: Mix ½ ounce of this product with 1 gallon of water or equivalent use dilution 660 ppm active. Place pre-cleaned instruments in solution to presoak for a minimum of 10 minutes, then proceed with normal sterilization procedure. Prepare a fresh solution at least daily, or more often, if use solution becomes visibly dirty or soiled.

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DEODORIZATION/CLEANING

FOR USE AS A (GENERAL) CLEANER AND/OR DEODORIZER: Apply ½ ounce of this product per 1 gallon of water. Rinse, wipe up excess liquid, and allow to air dry. For heavy-duty use, apply 2 ounces of use solution to clean surfaces.

GENERAL DEODORIZATION: To deodorize, apply ½ ounce of this product per 1 gallon of water. Rinse, wipe up excess liquid, and allow to air dry.

STORAGE AND DISPOSAL

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

(FOR USE ON NON-REFILLABLE CONTAINERS WITH HOUSEHOLD/RESIDENTIAL USES)

PESTICIDE STORAGE/CONTAINER HANDLING/RESIDUE REMOVAL/PESTICIDE DISPOSAL/ CONTAINER DISPOSAL: Non-refillable container. Store only in original container in areas inaccessible to children. Triple rinse container. Do not reuse empty container. Wrap (container) and put in trash or offer for recycling if available.

(FOR USE ON NON-REFILLABLE CONTAINERS WITH INSTITUTIONAL/COMMERCIAL/INDUSTRIAL USES)

CONTAINER HANDLING/PESTICIDE STORAGE: Store only in original container. Do not reuse empty container. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

RESIDUE REMOVAL: Triple rinse as follows: Fill the container ¼ full with water and recap. Agitate vigorously and drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat two more times. Wrap (container) and put in trash or offer for recycling if available.

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: Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. Follow Pesticide Disposal instructions.

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DEC-QUAT 200C

Sterile Pharmaceutical Clean Room Formula
Quaternary Ammonium

Lot Specific Sterile Documentation

(received with each shipment)

Certificate of Analysis
Certificate of Sterility
Certificate of Irradiation

(Please contact VAI for a sample of this documentation)

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DEC-QUAT 200C

Sterile Pharmaceutical Clean Room Formula
Quaternary Ammonium

Antimicrobial Test Results

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Efficacy DEC-QUAT 200 C

Hospital Disinfection (at ½ ounce per gallon)

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum and 400 ppm hard water at ½ ounce of this product per gallon of water (660 ppm active). Treated surfaces must remain wet for 10 minutes.

(Testing is performed per the AOAC UDT/GST method (DIS/TSS-1). Sixty carriers are required on 3 separate lots, one of which must be > 60 days old against *Pseudomonas aeruginosa*, *Salmonella enterica* and *Staphylococcus aureus*. Killing of 59 out of 60 carriers is required (total carriers = 540).

<i>Organism</i>	<i>Carrier Population</i>	<i>Sample</i>	<i># Carriers</i>	<i># Positive</i>
<i>Pseudomonas aeruginosa</i> ATCC #15442	3.9 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	1/60
<i>Salmonella enterica</i> ATCC #10708	1.03 X 10 ⁶ CFU/Carrier	A (60 Days Old)	60	1/60
		B	60	1/60
		C	60	0/60
<i>Staphylococcus aureus</i> ATCC #6538	7.0 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	0/60

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Supplemental Organisms

(Testing is performed per the AOAC UDT/GST method. Ten carriers are required on 2 separate lots against each supplemental organism. Killing of 10 out of 10 carriers is required (total carriers = 20).

Organism	Carrier Population	Sample	# Carriers	# Positive
<i>Acinetobacter baumannii</i> ATCC 19003	5.1 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Acinetobacter lwoffii</i> ATCC 15309	5.7 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Acinetobacter lwoffii</i> ATCC 9957	4.0 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Bordetella bronchiseptica</i> ATCC 10580	9.4 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Citrobacter freundii</i> ATCC 8090	3.9 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter aerogenes</i> ATCC 13048	2.35 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter agglomerans</i> ATCC 27155	3.9 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter cloacae</i> ATCC 13047	3.3 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> ATCC 19433	6.2 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51299	1.3 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus hirae</i> ATCC 10541	1.19 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> ATCC 11229	1.3 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> Spectrum B-Lactamase (ESBL) ATCC BAA-196	4.6 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> 0111:H8 ATCC BAA-184	4.3 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> Tetracycline Resistant ATCC 47041	3.1 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Fusobacterium necrophorum</i> ATCC 27852	5.8 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella oxytoca</i> ATCC 13182	1.07 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella pneumonia</i> ATCC 13883	1.2 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10

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Organism	Carrier Population	Sample	# Carriers	# Positive
<i>Listeria monocytogenes</i> ATCC 19117	7.7 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Micrococcus luteus</i> ATCC 14452	1.1 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Micrococcus luteus</i> ATCC 4698	4.8 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pasturella multocida</i> ATCC 12947	1.32 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus vulgaris</i> ATCC 13315	1.9 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus vulgaris</i> ATCC 9920	1.24 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pseudomonas aeruginosa</i> Tetracycline Resistant ATCC 27853	3.5 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pseudomonas cepacia</i> ATCC 25416	1.63 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> ATCC 23564	9.2 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> ATCC 4931	1.3 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> serotype pullorum ATCC 19945	7.1 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella typhi</i> ATCC 6539	8.3 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella typhimurium</i> ATCC 23564	1.5 x 10 ⁵ CFU/Carrier	A	10	0/10
	5.6 x 10 ⁵ CFU/Carrier	B	10	0/10
<i>Serratia marcescens</i> ATCC 14756	6.2 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Serratia marcescens</i> ATCC 9103	6.0 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella flexneri</i> ATCC 12022	2.6 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella flexneri</i> ATCC 9380	1.99 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella sonnei</i> ATCC 25931	1.04 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> ATCC 14154	9.2 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> ATCC 25923	6.6 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10

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<i>Organism</i>	<i>Carrier Population</i>	<i>Sample</i>	<i># Carriers</i>	<i># Positive</i>
<i>Staphylococcus aureus</i> sub species aureus ATCC 33586	7.2 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	5.4 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA)	6.3 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA) (NARSA NRS384) Genotype USA300)	1.60 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant (VISA) ATCC 5836	3.2 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus epidermidis</i> ATCC 14990	1.56 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus epidermidis</i> Antibiotic Resistant	8.6 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus haemolyticus</i> ATCC 29970	9.5 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus agalactiae</i> ATCC 13813	5.6 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus mutans</i> ATCC 25175	1.02 x 10 ⁶ CFU/Carrier	A	10	0/10
	1.3 x 10 ⁴ CFU/Carrier	B	10	0/10
<i>Streptococcus pneumoniae</i> Penicillin Resistant ATCC 51915	9.6 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus pyogenes</i> ATCC 19615	4.7 x 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Vibrio cholera</i> ATCC 11623	1.0 x 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Yersinia enterocolitica</i> ATCC 23715	1.2 x 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10

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Virucidal against (at ½ ounce per gallon)

This product was evaluated in the presence of 5% serum and 400ppm hard water with a 10 minute contact time and found to be effective against the following viruses on hard nonporous environmental surfaces.

(Testing is performed per EPA Guidance (DIS/TSS-7). Two separate lots are tested. Inactivation of virus must be demonstrated at all dilutions when no cytotoxicity is observed or at all dilutions above the cytotoxic level when it is observed. The data must demonstrate a 3-log reduction in viral titer for both lots (3 lots and 4-log reduction for Canada).

<i>Organism</i>	<i>Dried Virus Control</i>	<i>Sample</i>	<i>Result</i>	<i>Log Reduction</i>
Avian Infectious Bronchitis virus Beaudette IB42	6.42 Log ₁₀	A	≤0.5 Log ₁₀	≥5.92 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.92 Log ₁₀
	6.5 Log ₁₀	C	≤0.5 Log	≥6.0 Log
Avian Influenza A (H3N2) virus (Avian Resistant) (ATCC VR-2072)	4.75 Log ₁₀	A	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Avian Influenza A (H5N1) virus	6.75 Log ₁₀	A	≤0.5 Log ₁₀	≥6.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.25 Log ₁₀
Canine Coronavirus ATCC VR-809	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.75 Log ₁₀	B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Canine Distemper virus ATCC VR-128	6.25 Log ₁₀	A	≤0.5 Log ₁₀	≥5.75 Log ₁₀
	6.75 Log ₁₀	B	≤0.5 Log ₁₀	≥5.75 Log ₁₀
		C	≤0.5 Log ₁₀	≥6.25 Log ₁₀
Chlamydia psittaci ATCC VR-125	7.25 Log ₁₀	A	≤0.5 Log ₁₀	≥6.75 Log ₁₀
	4.75 Log ₁₀	B	≤0.5 Log ₁₀	≥6.75 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Cytomegalovirus ATCC VR-538	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Feline Picornavirus ATC VR-649	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	5.75 Log ₁₀	B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		C	≤0.5 Log ₁₀	≥5.25 Log ₁₀
Hantavirus (PHV)	6.23 Log ₁₀	A	≤1.5 Log ₁₀	≥4.73 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.73 Log ₁₀
Hepatitis B Virus	5.06 Log ₁₀	A	0.27 Log ₁₀	4.79 Log ₁₀
	5.20 Log ₁₀	B	0.41 Log ₁₀	4.79 Log ₁₀
	5.06 Log ₁₀	Confirmatory B	0.27 Log ₁₀	4.79 Log ₁₀
Hepatitis C Virus	6.21 Log ₁₀	A	0.24 Log ₁₀	5.97 Log ₁₀
	6.21 Log ₁₀	B	0.42 Log ₁₀	5.79 Log ₁₀
	6.06 Log ₁₀	Confirmatory B	0.13 Log ₁₀	5.93 Log ₁₀

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<i>Organism</i>	<i>Dried Virus Control</i>	<i>Sample</i>	<i>Result</i>	<i>Log Reduction</i>
Herpes Simplex Virus Type 1 ATCC VR-773	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≥5.5 Log ₁₀
Herpes Simplex Virus Type 2 ATCC VR-734	6.0 Log ₁₀	A	≤0.5 Log ₁₀	≥5.5 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.5 Log ₁₀
	5.75 Log ₁₀	C	≤0.5 Log ₁₀	≥5.25 Log ₁₀
Human Coronavirus ATCC VR-740	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.5 Log ₁₀	C	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Human Immunodeficiency Virus Type 1 (HIV 1) HTLV-III _B	5.75 Log ₁₀	A	≤1.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤1.5 Log ₁₀	≥4.25 Log ₁₀
Infectious Bovine Rhinotracheitis Virus ATCC VR-188	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.75 Log ₁₀	C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Influenza A Virus ATCC VR-544	6.5 Log ₁₀	A	≤0.5 Log ₁₀	≥6.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≥5.5 Log ₁₀
Influenza A (H1N1) Virus ATCC VR-1469	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Pseudorabies Virus ATCC VR-135	6.25 Log ₁₀	A	≤0.5 Log ₁₀	≥5.75 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.75 Log ₁₀
	5.5 Log ₁₀	C	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Respiratory syncytial virus ATCC VR-26	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	5.0 Log ₁₀	C	≤0.5 Log ₁₀	≥4.5 Log ₁₀
SARS Associated Coronavirus	6.5 Log ₁₀		≤3.5 Log ₁₀	≥3.0 Log ₁₀
			≤3.5 Log ₁₀	≥3.0 Log ₁₀
Swine Influenza A (H1N1) Virus ATCC VR-333	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Transmissible Gastroenteritis Virus	4.75 Log ₁₀	A	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.25 Log ₁₀
	6.25 Log ₁₀	C	≤0.5 Log ₁₀	≥5.75 Log ₁₀
Vaccinia virus ATCC VR-119	6.75 Log ₁₀	A	≤0.5 Log ₁₀	≥6.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.25 Log ₁₀
	6.5 Log ₁₀	C	≤0.5 Log ₁₀	≥6.0 Log ₁₀

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Virucidal against (at 2 ounces per gallon)

This product was evaluated in the presence of 5% serum and 400ppm hard water with a 10 minute contact time and found to be effective against the following viruses on hard nonporous environmental surfaces.

(Testing is performed per EPA Guidance (DIS/TSS-7). Two separate lots are tested. Inactivation of virus must be demonstrated at all dilutions when no cytotoxicity is observed or at all dilutions above the cytotoxic level when it is observed. The data must demonstrate a 3-log reduction in viral titer for both lots (3 lots and 4-log reduction for Canada).

<i>Organism</i>	<i>Dried Virus Control</i>	<i>Sample</i>	<i>Result</i>	<i>Log Reduction</i>
Canine Parovirus Type 2b, Nike Strain	7.5 Log ₁₀	A	≤3.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤3.5 Log ₁₀	≥4.0 Log ₁₀
Rabies Virus	5.75 Log ₁₀	A	≤2.5 Log ₁₀	≥3.25 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.25 Log ₁₀

Fungicidal Against (at ½ ounce per gallon)

This product was evaluated in the presence of 5% serum and 400ppm hard water with a 10 minute contact time and found to be effective against the following fungi on hard nonporous environmental surfaces.

(Testing is performed per AOAC fungicidal method (DIS/TSS-6). Two separate lots are tested against Trichophyton mentagrophytes in a suspension test. Killing of all fungal spores in 10 minutes is required.

<i>Organism</i>	<i>Carrier Population</i>	<i>Sample</i>	<i># Carriers</i>	<i># Positive</i>
<i>Candida albicans</i> ATCC #10231	1.57 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Trichophyton mentagrophytes</i> ATCC #9533	1.10 x 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10

Mold and mildew control (at ½ ounce per gallon)

Use this product to control the growth of mold and mildew and their odors on hard nonporous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odors reappears.

<i>Organism</i>	<i>Tile Number</i>	<i>Untreated After 7 Days</i>	<i>Sample A After 7 Days</i>	<i>Sample B After 7 Days</i>
<i>Aspergillus niger</i> ATCC #16404	1	Growth 90%	No Growth 0%	No Growth 0%
	2	Growth 70%	No Growth 0%	No Growth 0%
	3	Growth 90%	No Growth 0%	No Growth 0%
	4	Growth 80%	No Growth 0%	No Growth 0%
	5	Growth 80%	No Growth 0%	No Growth 0%
	6	Growth 90%	No Growth 0%	No Growth 0%
	7	Growth 80%	No Growth 0%	No Growth 0%
	8	Growth 70%	No Growth 0%	No Growth 0%
	9	Growth 90%	No Growth 0%	No Growth 0%
	10	Growth 70%	No Growth 0%	No Growth 0%

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Non-Food Contact Surface Sanitizer

Add ½ ounce of this product to 1 gallon of water to sanitize hard porous and nonporous non-food contact surfaces. Treated surfaces must remain wet for 3 minutes. Then wipe with sponge, mop or cloth or allow to air dry. At this dilution food contact surfaces must be rinsed.

(Testing is performed per EPA Guidance (DIS/TSS-10). Three lots are required, one of which must be ≥60 days old. Testing is performed against taphylococcus aureus and *Klebsiella pneumoniae* containing 5% organic load. *Enterobacter aerogenes* may be substituted for *Klebsiella pneumoniae*. The results must show a reduction of at least 99.9% (3 log₁₀) in the number of each test microorganism over the parallel control count within 5 minutes.

Organism	Carrier Population	Sample	3 Minute Kill CFU/Carrier	Percent Kill
<i>Klebsiella pneumoniae</i> ATC 4352	6.04 Log ₁₀	A (60 Days Old)	>3.56 Log ₁₀	>99.9
		B	>3.56 Log ₁₀	>99.9
		C	>3.56 Log ₁₀	>99.9
<i>Staphylococcus aureus</i> ATCC #6538	6.69 Log ₁₀	A (60 Days Old)	>5.21 Log ₁₀	>99.9
		B	>4.82 Log ₁₀	>99.9
		C	>5.21 Log ₁₀	>99.9

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