



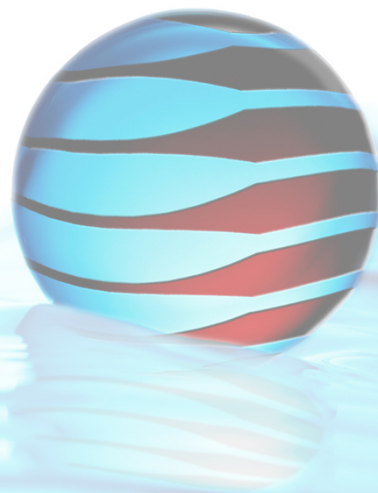
VELTEK ASSOCIATES, INC.

# TECHNICAL DATA FILES



## DECON-QUAT<sup>®</sup> 100

Phosphate Free Quaternary Ammonium Solution





**Product Description**

**DECON-QUAT 100** is a one-step, phosphate-free quaternary ammonium solution designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping and controlling the hazards of cross-contamination on treated surfaces is of prime importance. **DECON-QUAT 100** is recommended for use in the pharmaceutical, lab animal, biotechnology, medical device, and healthcare industries on numerous hard, non-porous surfaces. **DECON-QUAT 100** is a proven cleaner, sanitizer, mildewstat and virucide and is a broad-spectrum hard surface disinfectant in the presence of organic soil (5% blood serum) when used as directed. **DECON-QUAT 100** inhibits bacterial growth on moist surfaces, inhibits the growth of mold and mildew, and deodorizes by killing microorganisms that cause offensive odors. **DECON-QUAT 100** meets OSHA Bloodborne Pathogen Standard for HIV, HBV and HCV, kills Avian Influenza A Flu Viruses (H5N1) (H1N1) (H3N2), and meets efficacy standards for hard, non-porous, non-food contact surface sanitizers.

Cleaner – Disinfectant – Sanitizer – Deodorizer – Fungicide – Mildewstat – Virucide\*  
 \*when used as directed

**DECON-QUAT 100** is filled in ISO 5 (Grade A/B, Former Class 100), filtered at 0.2 microns, and subsequently terminally sterilized to 10<sup>-6</sup> sterility assurance level. Each lot of **DECON-QUAT 100** is sterility tested according to current USP Compendium, is completely traceable, and has been completely validated for sterility and shelf life. All shipments are delivered with lot specific Certificate of Analysis, Certificate of Sterility, and Certificate of Irradiation.

**DECON-QUAT 100** is available in multiple container sizes including a 1 gallon, 16 oz trigger spray, unit dose, and a 200L drum. **DECON-QUAT 100** 1 gallon, 16 oz, and 200L containers come in our ready-to-use SimpleMix® System that allows for exact and fresh formulations each and every time without handling the concentrate. Each sterile container of **DECON-QUAT 100** is individually double bagged and packaged in two liner bags using the ABCD Cleanroom Introduction System®.

**Quality and Manufacturing**

- Filled in an ISO 5 (Grade A/B, Former Class 100)
- Filtered at 0.2 microns
- Components are air washed with 0.2 micron filtered air before assembly
- Gamma irradiated at a 10<sup>-6</sup> SAL
- Lot sterility tested according to current USP compendium
- Completely traceable from start to finish
- Completely validated for sterility and shelf life

DECON-QUAT 100 – Phosphate Free Quaternary Ammonium Solution	
Certificate of Analysis	Specification
Appearance:	Clear to straw yellow
Alkyl (C14, 60%, C16, 30%, C12, 5%, C18, 5%) Dimethyl Benzyl Ammonium Chloride:	4.75-5.25%
Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl Ammonium Chloride:	4.75-5.25%
pH:	6.0-9.0
Expiration Period:	2 years

## Uses

**DECON-QUAT 100** is for use on hard, non-porous surfaces in medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, healthcare facilities, lab animal research, and laboratories. General hard, non-porous surfaces include floors, finished floors, walls, ceilings, glass, aluminum, brass, copper, laminated surfaces, metal, plated steel, stainless steel, plastic (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene), chrome, Plexiglas®, enameled surfaces, Formica®, and vinyl.

## Features and Benefits

- US EPA registered; EPA Registration Number: 10324-63-68959
- Each sterile container is double bagged in easy tear packaging
- Quadruple bagged in the ABCD Cleanroom Introduction System®
- Delivered with lot specific Certificate of Analysis, Certificate of Irradiation, and Certificate of Sterility
- Available in our convenient, ready-to-use, SimpleMix System
- Individually labeled with lot number and expiration
- Multiple convenient container sizes – Unit Dose, 16 oz, 1 Gallon, and 200L
- One-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal\*, and inhibits the growth of mold and mildew and their odors when used as directed
- Effective in the presence of organic soil (5% blood serum)
- Kills 99% of common institutional bacteria and/or germs
- Kills Avian Influenza A Flu Virus (H5N1) (H1N1) (H3N2)
- Meets OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV
- Effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus)
- Effective non-food contact sanitizer in the presence of 5% serum contamination on hard, non-porous, non-food contact surfaces at 200 ppm active
- Non-abrasive formula will not harm or scratch surfaces, is non-staining, and non-dulling
- Is efficient and stable in use dilution
- Contains no fragrances or phosphates and will not leave grit or soap scum

## The SimpleMix® System Technology Alternative

Veltek Associates, Inc. has developed the patented SimpleMix System Technology to eliminate measuring and additional containers. It provides for the transfer of the sterile concentrated disinfectant or sporicide 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. The patented SimpleMix System Gallon, 16oz, and 200L systems provide a sealed multi-chamber container that when activated mixes the solution to the correct use dilution. The opening on the top of the gallon size contains the concentrate and the bottom reservoir contains the VAI WFI Quality Water. The 16 ounce side container houses the concentrate and the bottom reservoir houses the VAI 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. 200L SimpleMix systems are activated through a hose and valve system connecting the cubcontainer of concentrate to the VAI WFI Quality Water. 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.



**DECON-QUAT 100** 16 oz SimpleMix

Veltek Associates, Inc.

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Rev: 24May2017 ML Rev: A-16

## 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 one bag at a time. Each bag acts as barrier protecting the finished product from becoming a carrier of viable and non-viable contamination. This prevents the need to decontaminate each outer bag prior to entering a cleaner area. In this packaging system, sterilized groups of containers are contained in two outer bags and after each are removed individual containers are each additionally contained in two easy tear bags.

## Ordering Information

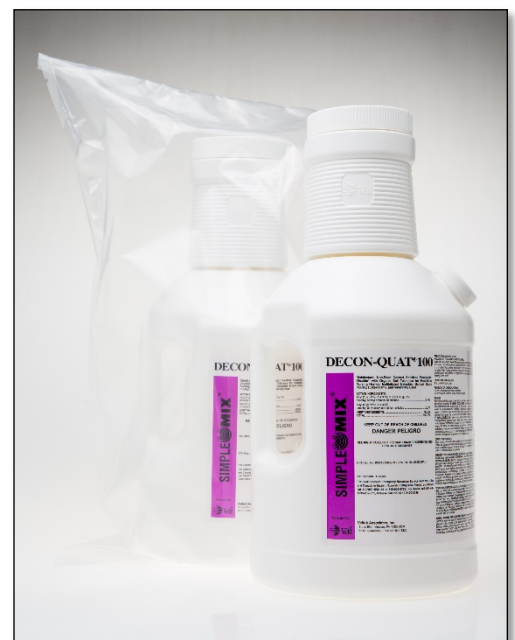
DECON-QUAT 100 – Phosphate Free Quaternary Ammonium Solution		
Part number	Description	Qty/cs
DQ100-01	DECON-QUAT 100, 1 Gallon Concentrate, Non-Sterile	4
DQ100-02	DECON-QUAT 100, 1 Gallon Concentrate, Sterile	4
DQ100-03-2Z	DECON-QUAT 100, 2 oz Concentrate, Unit Dose, Sterile	24
DQ100-03-8Z	DECON-QUAT 100, 8 oz Concentrate, Unit Dose, Sterile	24
DQ100-04-2Z	DECON-QUAT 100, 1 Gallon SimpleMix, Sterile	4
DQ100-05-2Z	DECON-QUAT 100, 1 Gallon SimpleMix, Non-Sterile	4
DQ100-06-16Z-01	DECON-QUAT 100, 16 oz SimpleMix, Attached Trigger, Sterile	12
DQ100-07-16Z-01	DECON-QUAT 100, 16 oz SimpleMix, Attached Trigger, Non-Sterile	12
DQ100-10-200L-2XI	DECON-QUAT 100, 200L, SimpleMix Drum, Sterile	1



DQ100-01



DQ100-03-8Z



DQ100-04-2Z

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**VAI's Product Label Colors**

Product Name	Bottle/Can Color	Label Background Color	Bar & User Info Color	Text Color
DECON-AHOL WFI FORMULA 70% AEROSOL	COOL GREY	PRINTED CAN COOL GREY		
DECON-AHOL WFI FORMULA 70% TRIGGER SPRAY, 1 & 5 GALLON	WHITE	COOL GREY		
DECON-AHOL WFI FORMULA 70% SQUEEZE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 70% ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 60%	WHITE	WHITE		
DECON-AHOL WFI FORMULA 91%	WHITE	WHITE		
DECON-AHOL FORMULA 99%	WHITE	WHITE		
STER-AHOL WFI AEROSOL	WHITE	PRINTED CAN WHITE		
STER-AHOL WFI TRIGGER SPRAY, 1 & 5 GALLON	WHITE	WHITE		
DECON-HAND STERILE	WHITE SEMI-TRANSPARENT	PRINTED BOTTLE		
DECON-HAND NON-STERILE	CLEAR	PRINTED BOTTLE		
DECON-HAND ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	WHITE		
STERI-OIL	WHITE	WHITE		
STERI-BUFFER	CLEAR	WHITE		
DECON-PHENE	WHITE	WHITE		
DECON-CYCLE	WHITE	WHITE		
DECON-CLEAN	WHITE	WHITE		
DECON-QUAT 100	WHITE	WHITE		
DECON-QUAT 200C	WHITE	WHITE		
DECON-QUAT 200V	WHITE	WHITE		
HYP0-CHLOR 0.25%	WHITE	WHITE		
HYP0-CHLOR 0.52%	WHITE	WHITE		
HYP0-CHLOR 5.25%	WHITE	WHITE		
STERI-PEROX 3%	WHITE	WHITE		
STERI-PEROX 6%	WHITE	WHITE		
DECON-SPORE 200 PLUS (SPORICIDE)	WHITE SEMI-TRANSPARENT	WHITE		
DECON-SPORE 200 PLUS (DISINFECTANT)	WHITE SEMI-TRANSPARENT	WHITE		
STEEL-BRIGHT	WHITE	WHITE		
STERI-SILICON	WHITE	BLACK		
DECON-GLASS	WHITE	WHITE		
VAI WFI QUALITY WATER	WHITE	WHITE		
STERI-WATER	WHITE	WHITE		





# PRODUCT LABELING

## DECON-QUAT® 100 Phosphate Free Quaternary Ammonium Solution

(Any specific product label is available upon request.)



DECON-QUAT 100 Family of Products

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# DECON-QUAT® 100

Disinfectant – Sanitizer - Deodorizer - Cleaner - Fungicide - Mildewstat - Virucide - With Organic Soil Tolerance For Hospitals, Nursing Homes, Institutional, Industrial. Non-Acid Bathroom Cleaner. Non-Dulling to Floors. Meets OSHA Bloodborne Pathogen Standard for HIV, HBV and HCV.

Made in USA.

**ACTIVE INGREDIENTS:**

Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> )	
Dimethyl Benzyl Ammonium Chloride .....	5.0%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> )	
Dimethyl Ethylbenzyl Ammonium Chloride .....	5.0%

**OTHER INGREDIENTS:** ..... 90.0%

**TOTAL:** ..... 100.0%

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15 Lee Boulevard  
Malvern, PA 19355-1234 USA  
Tel: 610-644-8335

EPA Est. No. 68959-PA-01  
EPA Reg. No. 10324-63-68959

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

See label below for additional precautionary statements and first aid statements.

**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.**

**DISPOSAL:** Do not reuse or refill this container. Wrap empty container and put in trash.

### DECON-QUAT 100

**DECON-QUAT 100** is a quaternary ammonium solution disinfectant, sanitizer, deodorizer, cleaner, fungicide, mildewstat, and virucide with organic soil tolerance (5% blood serum) when used as directed. **DECON-QUAT 100** is a phosphate-free formulation that cleans without bleaching and is a one-step germicidal disinfectant designed for general cleaning, disinfection, deodorizing, and controlling mold and mildew on hard, non-porous surfaces.

**DECON-QUAT 100** contains no abrasives so it won't scratch surfaces, is efficient and stable in use dilution, is fragrance-free, is non-staining, is non-dulling, and will not leave grit or soap scum. **DECON-QUAT 100** has been designed specifically where housekeeping is of prime importance and is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge, or by soaking.

**DECON-QUAT 100** is for use on hard, non-porous surfaces in cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, healthcare facilities, and laboratories. General hard, non-porous surfaces include floors, finished floors, walls, ceilings, glass, aluminum, brass, copper, laminated surfaces, metal, plated steel, stainless steel, glazed porcelain, glazed tile, glazed ceramic, sealed granite, sealed marble, plastic (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene),

sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome, Plexiglas®, enameled surfaces, Formica®, and vinyl.

**DECON-QUAT 100** is a one-step, hospital-use germicidal disinfectant, cleaner, and deodorant designed for general cleaning, disinfecting, deodorizing, and controlling mold and mildew on hard non-porous surfaces in hospitals, healthcare facilities, medical research facilities, and labs. Surfaces include hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, stretches, and medical equipment surfaces.

**DECON-QUAT 100** is a versatile disinfectant & sanitizer for veterinarian, veterinary practice, animal care, and animal laboratory. **DECON-QUAT 100** is for use with organic soil tolerance in veterinary, veterinary clinics, animal life sciences laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, equine farms, animal kennels, animal housing facilities, operating rooms, washing areas, examination rooms, and other animal care facilities. This product cleans by removing dirt, grime, mold, mildew, blood, urine, fecal matter and other common soils found in animal facilities and is able to clean rodent soiled areas. Furthermore, this product is for use as a cleaner & deodorizer on rugs, floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any hard, non-porous surfaces soiled by a pet.

**DECON-QUAT 100** has been formulated to disinfect cleanroom and laboratory hard, non-porous surfaces such as laminar-airflow equipment, BioSafety Cabinet work surfaces, countertops, incubators, refrigerators, centrifuge surfaces of metal, stainless steel, glass, plastic (such as polystyrene or polypropylene), Formica®, and vinyl.

**DECON-QUAT 100** is an effective bactericide, virucide, disinfectant, fungicide, and non-food contact sanitizer in the presence of organic soil (5% blood serum) when used as directed. It is effective against 99.9% of the bacteria and viruses commonly found on hard non-porous environmental surfaces. **DECON-QUAT 100** kills Avian Influenza A Flu Virus (H5N1) (H1N1) (H3N2) and meets OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV\*. **DECON-QUAT 100** is an effective fungicide against *Trichophyton mentagrophytes*, the athlete's foot fungus\*. **DECON-QUAT 100** is an effective one-step, non-food contact sanitizer in 3 minutes at 1 oz. per 4 gal. of water at 200 ppm active and 5% soil on hard, non-porous surfaces against *Staphylococcus aureus* and *Enterobacter aerogenes*\*. **DECON-QUAT 100** inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors\*.

\*when used as directed.

## **FIRST AID**

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**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.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IF SWALLOWED:** 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. Call a poison control center or doctor immediately for treatment advice.

**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.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

For chemical or environmental emergencies, call CARECHEM 24 at 866-928-0789



## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get into 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.

### **PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear and socks, protective eyewear, chemical-resistant headgear when using this product for algae control in overhead watering system and chemical-resistant apron when mixing, loading or cleaning equipment. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **USER SAFETY RECOMMENDATIONS**

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### **ENVIRONMENTAL HAZARD**

**Containers greater than 5 gallons:** This product is toxic to fish and aquatic invertebrates. 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.

**Containers less than 5 gallons:** This product is toxic to fish and aquatic invertebrates.

## **STORAGE AND DISPOSAL**

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

**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:**

**For non-refillable containers equal to or less than 5 gallons:** 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.

**For non-refillable containers greater than 5 gallons:** 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. 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.

**For sealed containers:** Non-refillable Container. Do not reuse or refill this container. Wrap empty container and put in trash or offer for recycling.

**DIRECTIONS FOR USE**

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

DECON-QUAT 100 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.

**DILUTION TABLE**

Use	Dilution	Contact Time
For Hospital or Medical Environment claims	4 oz. /5 gal. water	10 minutes
For General or Broad Spectrum claims	3 oz. /5 gal. water	10 minutes
For Public Health Virucidal* claims	4 oz. /5 gal. water	10 minutes
For Animal Virucidal* claims	4 oz. /5 gal. water	10 minutes
For Non-Food Contact Sanitizing claims	1 oz. /5 gal. water	3 minutes
For Fungicidal claims	4 oz. /5 gal. water	10 minutes
For Mold and Mildew claims	4 oz. /5 gal. water	10 minutes

***HOSPITAL/HEALTH CARE/MEDICAL/NON-MEDICAL***

**FOR USE AS A ONE-STEP DISINFECTANT, VIRUCIDE\*, CLEANER:**

1. Pre-clean heavily soiled areas.
2. Prepare a solution according to SimpleMix® System Container instructions, apply use solution of 4 oz. of this product per 5 gal. of water, or apply equivalent use dilution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
3. Treated surfaces must remain wet for 10 minutes.
4. Wipe dry with a clean cloth or allow to air dry.
5. Prepare a fresh solution daily or when visibly dirty.

**BLOODBORNE PATHOGEN INSTRUCTIONS**

**\*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. Specific barrier protection items to be worn 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:** Allow hard, non-porous surface to remain wet for 2 minutes to kill HIV and for 10 minutes to kill other viruses and bacteria listed on the label.

**SURGICAL INSTRUMENT PRESOAK:** Prepare a solution according to SimpleMix System Container instructions, add (mix) 4 oz. of this product per 5 gal. of water, or mix equivalent use dilution at 625 ppm active. Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure.

**Note:** Plastic instruments can remain immersed until sterilization procedure. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle until sterilization procedure. Prolonged soaking will cause damage to metal instruments. Surgical instruments must be sterilized before use. Prepare a fresh solution daily or when visibly dirty.

**ULTRASONIC BATH DISINFECTANT DIRECTIONS:** Pre-clean heavily soiled areas. Use this product to disinfect hard, non-porous noncritical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of this product of 4 oz. of this product per 5 gal. of water, or pour equivalent use dilution at 450 ppm active directly into bath chamber. Place objects into unit and operate according to manufacturers' use directions for a minimum of 10 minutes. Remove objects and rinse with sterile water. Allow to air dry. Prepare a fresh solution daily or when visibly dirty.

**FOR DISINFECTING USE ON HARD, NON-POROUS BATH AND THERAPY EQUIPMENT:** Drain the water from the unit. Pre-clean heavily soiled surfaces to remove body oils, dead tissue, soil and all other buildups. Prepare a solution according to SimpleMix System Container instructions, prepare a use solution by adding 4 oz. of this product per every 5 gal. of water, or prepare equivalent use dilution at 625 ppm active. Refill the unit with the use solution to just cover the intake valve. Briefly start the pump to circulate the solution. Turn off pump. Wash down the unit sides, seat of the chair lift, and all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solution from the unit and rinse surfaces with fresh water. The unit is ready for reuse.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment, if heavily soiled to ensure proper surface contact. Prepare a solution according to SimpleMix System Container instructions, prepare a use solution by adding 4 oz. of this product per 5 gal. of water, or prepare equivalent use dilution at 625 ppm active. Gently mix for uniform use solution. Apply use solution to surfaces of the respirator with a sponge, brush, cloth, mop, by immersion, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Treated surfaces must remain wet for 10 minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134). Prepare a fresh solution daily or when visibly dirty.

### **GENERAL DISINFECTION**

**FOR USE AS A GENERAL DISINFECTANT CLEANER TO KILL *Salmonella enterica* (ATCC 10708) and**

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***Staphylococcus aureus* (ATCC 6538) ON HARD, NON-POROUS SURFACES:**

1. Pre-clean heavily soiled areas.
2. Apply use solution of 3 ounces this product per 5 gal. of water or equivalent use dilution at 469 ppm active to hard, non-porous surfaces using a sponge, brush, cloth, mop, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
3. Treated surfaces must remain wet for 10 minutes.
4. Wipe dry with a clean cloth or allow to air dry.
5. Prepare a fresh solution daily or when visibly dirty.

**SANITIZING****NON-FOOD CONTACT SANITIZING DIRECTIONS**

**NON-FOOD CONTACT SANITIZING:** Pre-clean heavily soiled surfaces. Add 1 oz. of this product to 4 gal. of water or equivalent use dilution at 200 ppm active. Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breath spray. Treated surfaces must remain wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.

**FUNGICIDAL/MOLD/MILDEW**

**TO KILL FUNGI:** Pre-clean hard, non-porous surfaces. Prepare a solution according to SimpleMix System Container instructions, prepare use solution by adding 4 oz. of this product per 5 gal. of water, or prepare equivalent use dilution. Apply use solution to pre-cleaned hard, non-porous surfaces. Allow surface to remain wet for 10 minutes. Wipe surfaces and let air dry.

**TO CONTROL MOLD/MILDEW:** To control, prevent, and inhibit the growth of mold and mildew (*Aspergillus niger*) and the odors caused by them when applied to hard, non-porous surfaces. Prepare a solution according to SimpleMix System Container instructions, prepare use solution by adding 4 oz. of this product per 5 gal. of water, or prepare equivalent use dilution. Apply use solution to pre-cleaned 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, enclosures, crates, and kennels. 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 and detergent and rinse with water.

**FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIRUCIDE\*:** Prepare a solution according to SimpleMix System Container instructions, prepare a use solution of 4 oz. of this product per 5 gal. of water, or prepare equivalent use dilution at 625 ppm active.

Apply use solution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, immersion, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breath 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 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 feeds, fountains and waterers and other treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

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**TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION:** Animals frequently defecate on rocks and other hard, non-porous cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly, this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items. Do not use on porous rocks, hot rocks, and driftwood.

1. Remove all animals.
2. Thoroughly clean surfaces and objects (caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all hard, non-porous surfaces (such as floors, walls, cages and other washable hard, non-porous surfaces with the disinfecting and virucidal\* solution of 4 oz. of this product per 5 gal. of water or equivalent use dilution at 625 ppm active so as to wet thoroughly.
4. Apply by cloth, mop, brush, sponge, immersion, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breath spray. Rub with brush, cloth, or sponge. For smaller surfaces, use a trigger spray bottle to spray surfaces with solution.
5. Allow surfaces to remain wet for a period of 10 minutes.
6. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
7. Thoroughly scrub all treated surfaces (except gravel) with soap or detergent and rinse with potable water before reuse.
8. Do not return animals to the habitat until it is dry and ventilated.
9. Clean terrarium at least once weekly or more as needed. Change cloth, sponge or towels frequently to avoid redeposition of soil.
10. Prepare a fresh solution daily or more often if use solution before visibly soiled or dirty.

**Note:** Substrates for desert terrariums (i.e. gravel) must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists. Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.

**REPTILE TANK CLEANING AND DISINFECTION DIRECTIONS:** Remove all reptiles from the enclosure or tank prior to cleaning and disinfecting. Remove all litter or droppings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean surfaces with soap or detergent and rinse with water. Apply disinfecting and virucidal\* solution of 4 oz. of this product per 5 gal. of water or equivalent use dilution at 625 ppm active to hard, non-porous surfaces of the enclosure or tank. Apply by cloth, mop, brush, sponge, by immersion, mechanical spray device, or trigger spray device. For spray applications, spray 6-8 inches from the surface. Do not breath spray. Allow surfaces to remain wet for 10 minutes. Wipe dry with a paper towel. Rinse surfaces that come in contact with food with potable water before reuse. Allow the enclosure or tank to ventilate for a minimum of 10-15 minutes before replacing reptiles. Prepare a fresh solution daily or when visibly dirty.

**Note:** Do not apply this product directly onto the reptile. If this product comes into contact with the reptile's skin, then immediately wash the material off of the animal with lukewarm water. If the reptile ingests this product, contact your veterinarian immediately.

## ***DEODORIZATION/CLEANING***

**FOR USE AS A GENERAL CLEANER:** Prepare a use solution of 3 oz. of this product per 5 gal. of water and apply to hard, non-porous surfaces. Rinse or wipe up excess liquid and allow to air dry. For heavy-duty use, apply 6 oz. of this product per 5 gal. of water to clean hard, non-porous surfaces.

**GENERAL DEODORIZATION:** To deodorize, apply 3 oz. of this product per 5 gal. of water to hard, non-porous surfaces. Rinse or wipe up excess liquid and allow to air dry.



**ALTERNATE CONTAINER/DELIVERY SYSTEMS**

**AUTOMATED DILUTION SYSTEM INSTRUCTIONS:**

**SIMPLEMIX® SYSTEM CONTAINER:**

*Trigger Spray Bottle lid label:*

1. To prepare use solution, open cap.
2. Peel off inner seal by grasping tab at far edge and pulling off.
3. Firmly push small, inner container completely down.
4. Replace cap and tighten.
5. Slowly swirl for 15 seconds.
6. Move spray nozzle to open position.
7. Follow directions for use on label.

See page 15 for pictorial directions.



*Gallon Size Bottle lid label:*

1. To prepare use solution, open cap.
2. Peel off inner seal by grasping far edge and pulling off.
3. Firmly push small, inner container completely down.
4. Replace cap and tighten.
5. Slowly swirl for 15 seconds.
6. Open small side spout and peel off inner seal, as above.
7. Pour solution from small side spout onto surfaces to be treated or alternate containers.
8. Follow directions for use on label.

See page 16 for pictorial directions.

*200 Liter Drum Lid Label:*

1. Close all valves.
2. Uncoil hoses.
3. Connect center hose to pump between X and Y.
4. Open valve 1, then valve 2, then valve 4.
5. START pump to empty cubic container.
6. When cubic container is empty, turn pump OFF.
7. Close valve 1 and valve 2.
8. Open valve 6 and valve 5.
9. Re-start pump and mix 15 minutes
10. STOP pump.
11. Close valve 4.
12. To dispense – Open valves 3 and 7. Run pump only when dispensing.
13. Follow directions for use on label.

See page 17 for pictorial directions.



**16 oz SimpleMix System Directions**

**SIMPLEMIX® 16 oz/ 473mL Aseptic Mixing System**  
For the Exact Formulation of 16 oz/ 473 mL Disinfectants and Sporicides  
**Ready-to-Use Mixing Instructions**

- 1) To prepare use solution, open cap.
- 2) Peel off inner seal by grasping tab at far edge and pulling off.



- 3) Firmly push small, inner container all the way down.



- 4) Replace cap and tighten.



- 5) Slowly swirl for 15 seconds.



- 6) Move spray nozzle to open position.



- 7) Follow directions for use on label.



**1 Gallon SimpleMix System Directions**

**SIMPLEMIX® 1 Gallon/ 3.79L Aseptic Mixing System**  
For the Exact Formulation of 1 Gallon/ 3.79L Size Disinfectants and Sporicides  
**Ready-to-Use Mixing Instructions**

1) To prepare use solution, open cap.  
2) Peel off inner seal by grasping tab at far edge and pulling off.



3) Firmly push small, inner container all the way down.



4) Replace cap and tighten.



5) Slowly swirl for 15 seconds.



6) Open small side spout and peel off inner seal, as above.



7) Pour solution from small side spout onto surfaces to be treated or alternate containers.



8) Follow directions for use on label.

**200L SimpleMix System Directions**

**SIMPLEMIX® 200 L Aseptic Mixing System**  
 For Large Scale Aseptic Manufacturing Environments  
**Ready-to-Use Mixing Instructions**

Remove drum from double-bag packaging.



Remove cubic container from top of drum. 1) Close all valves. 2) Uncoil hoses.



3) Connect center hose to pump between X and Y.



4) Open valve 1, then valve 2, then valve 4.



5) START pump to empty cubic container. 6) When cubic container is empty, turn pump OFF.



7) Close valve 1 and valve 2.



8) Open valve 6 and valve 5.



9) Re-start pump and mix 15 minutes. 10) Stop pump.



11) Close valve 4. 12) To dispense- Open valves 3 and 7. Run pump only when dispensing.



13) Follow directions for use on label.



# EFFICACY TEST SUMMARY

## DECON-QUAT® 100 Phosphate Free Quaternary Ammonium Solution

DECON-QUAT 100 kills the following <i>bacteria</i> in 10 minutes at 3 oz. per 5 gal. of water at 469 ppm active and 5% soil on hard, non-porous surfaces:	
<i>Campylobacter jejuni</i> (ATCC 29428)	<i>Salmonella enterica</i> (ATCC 10708)
<i>Escherichia coli</i> O157:H7 (ATCC 31250)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Listeria monocytogenes</i> (ATCC 984)	<i>Staphylococcus aureus</i> Methicillin resistant (MRSA) (ATCC 33591)
<i>Proteus mirabilis</i> (Clinical Isolate)	<i>Yersinia enterocolitica</i> (ATCC 23715)

DECON-QUAT 100 kills the following <i>bacteria</i> in 10 minutes at 4 oz. per 5 gal. of water at 625 ppm active and 5% soil on hard, non-porous surfaces:	
<i>Botrytis cinerea</i> (ATCC 12481)	<i>Pseudomonas aeruginosa</i> (ATCC 15442)
<i>Burkholderia cepacia</i> (ATCC 25416)	<i>Salmonella enterica</i> (ATCC 10708)
<i>Campylobacter jejuni</i> (ATCC 29428)	<i>Salmonella typhi</i> (ATCC 6539)
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	<i>Shigella sonnei</i> (ATCC 9290)
<i>Enterococcus faecium</i> Vancomycin Resistant (VRE) (Clinical Isolate)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Escherichia coli</i> O157:H7 (ATCC 31250)	<i>Staphylococcus aureus</i> Methicillin resistant (MRSA) (ATCC 33591)
<i>Klebsiella pneumonia</i> (ATCC 13883)	<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA MRSA) (Genotype USA400)
<i>Listeria monocytogenes</i> (ATCC 984)	<i>Yersinia enterocolitica</i> (ATCC 23715)
<i>Proteus mirabilis</i> (Clinical Isolate)	

DECON-QUAT 100 kills the following <i>viruses</i> in 10 minutes at 4 oz. per 5 gal. of water at 625 ppm active and 5% soil on hard, non-porous surfaces:	
Avian Influenza A (H5N1) Virus	Human Immunodeficiency Virus Type 1 <sup>‡</sup> (HIV-1) (AIDS Virus)
Avian influenza A/Turkey/Wisconsin virus (VR-798)	Infectious Bovine Rhinotracheitis Virus (Strain LT-IVAX)
Avian Reovirus (VR-2449)	Infectious Bronchitis Virus (Strain Beaudette IB42)
Bovine Viral Diarrhea Virus (VR-534)	Infectious Laryngotracheitis Virus (Clinical Isolate)
Canine Coronavirus (VR-809)	Influenza A (H1N1) Virus (VR-1469)
Canine Distemper Virus (USDA Reference Virus)	Influenza A <sub>2</sub> /Japan Virus (VR-100)
Equine Arteritis Virus (VR-796)	Newcastle Disease Virus (Clinical Isolate)





Hepatitis B Virus (HBV)	Porcine Respiratory & Reproductive Virus (USA Reference Virus) (PRRSV)
Hepatitis C Virus (HCV)	Porcine Rotavirus (VR-893)
Herpes Simplex Type1 Virus (VR-260)	Pseudorabies Virus (VR-135)
Herpes Simplex Type2 Virus (VR-734)	Transmissible Gastroenteritis Virus (TGE)
Human Coronavirus (VR-740)	Vaccinia Virus (Clinical Isolate)

<b>DECON-QUAT 100 is an effective food contact sanitizer in 1 minute at 200 ppm active 1 oz. per 4 gal. of 500 ppm hard water on hard, non-porous surfaces:</b>	
<i>Aeromonas hydrophila</i> (ATCC 23213)	<i>Escherichia coli</i> O121:K:-H10 (ECL 39W)
<i>Campylobacter jejuni</i> (ATCC 29428)	<i>Escherichia coli</i> O145:H28 (ATCC BAA-1652)
<i>Clostridium perfringens</i> (vegetative) (ATCC 13124)	<i>Escherichia coli</i> O157:H7 (ATCC 43888)
<i>Enterobacter sakazakii</i> (ATCC 29544)	<i>Listeria monocytogenes</i> (ATCC 984)
<i>Enterococcus faecalis</i> (Vancomycin Resistant) (VRE) (ATCC 5129)	<i>Salmonella typhi</i> (ATCC 6539)
<i>Escherichia coli</i> (ATCC 11229)	<i>Shigella dysenteriae</i> (ATCC 9361)
<i>Escherichia coli</i> O26:H11 (ATCC BAA-1653)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Escherichia coli</i> O45:K:-H- (ECL 1001)	<i>Streptococcus pyogenes</i> (ATCC 12344)
<i>Escherichia coli</i> O103:K.:H8 (ATCC 23982)	<i>Yersinia enterocolitica</i> (ATCC 23715)
<i>Escherichia coli</i> O111:H8 (ATCC BAA-184)	

<b>DECON-QUAT 100 is an effective one-step, non-food contact sanitizer in 3 minutes at 1 oz. per 4 gal. of water at 200 ppm active and 5% soil on hard, non-porous surfaces:</b>	
<i>Enterobacter aerogenes</i> (ATCC 13048)	<i>Staphylococcus aureus</i> (ATCC 6538)

<b>DECON-QUAT 100 kills the following fungi in 10 minutes at 4 oz. per 5 gal. of water at 625 ppm active and 5% soil on hard, non-porous surfaces:</b>	
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	

<b>DECON-QUAT 100 controls the following mold in 10 minutes at 4 oz. per 5 gal. of water at 625 ppm active at 5% soil on hard, non-porous surfaces:</b>	
<i>Aspergillus niger</i> (ATCC 6275)	



## Summary of Antimicrobial Test Results

### Hospital Disinfection

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum at 4 ounces of this product per 5 gallons of water (625 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).)

Organism	Carrier Population	Sample	# Carriers	# Positive
<i>Pseudomonas aeruginosa</i> ATCC # 15442	1.6 x 10 <sup>7</sup> CFU/Carrier	A (60 days old)	60	1/60
	1.0 x 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	0.9 x 10 <sup>6</sup> CFU/Carrier	C	60	0/60
<i>Salmonella enterica</i> ATCC # 10708	5.6 x 10 <sup>4</sup> CFU/Carrier	A (60 days old)	60	0/60
	5.4 x 10 <sup>4</sup> CFU/Carrier	B	60	1/60
	4.0 x 10 <sup>4</sup> CFU/Carrier	C	60	1/60
<i>Staphylococcus aureus</i> ATCC # 6538	1.6 x 10 <sup>6</sup> CFU/Carrier	A (60 days old)	60	1/60
	1.4 x 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	1.4 x 10 <sup>6</sup> CFU/Carrier	C	60	1/60

### 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>Botrytis cinerea</i> ATCC # 12481	3.0 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Burkholderia cepacia</i> ATCC # 25416	3.5 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Campylobacter jejuni</i> ATCC # 29428	5.0 x 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Corynebacterium ammoniagenes</i> ATCC # 6871	6.0 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> 0157:H7 ATCC # 35150	1.4 x 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
<i>Enterococcus faecium</i> Vancomycin Resistant (VRE)	1.0 x 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella pneumoniae</i> ATCC # 13883	1.8 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Listeria monocytogenes</i> ATCC # 984	2.4 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus mirabilis</i> Clinical Isolate	1.2 x 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
<i>Salmonella typhi</i> ATCC # 6539	4.0 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella sonnei</i> ATCC # 9290	1.3 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> (Methicillin Resistant) (MRSA) ATCC # 33591	4.2 x 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10



<i>Staphylococcus aureus</i> (Community Associated Methicillin Resistant) (CA-MRSA_ (NRS 123) (Genotype USA400) ATCC # 33591	1.44 x 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Yersinia enterocolitica</i> ATCC # 23715	4.6 x 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20

**General Disinfection**

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum at 3 ounces of this product to 5 gallon of water (469 ppm active). Treated surfaces must remain wet for 10 minutes.

(Testing is performed per the AOAC UDT/GST method (DSI/TSS-1). Sixty carriers are required on 3 separate lots, one of which must be > 60 days old against *Salmonella enterica* and *Staphylococcus aureus*. Killing of 59 out of 60 carriers is required (total carriers = 360).)

Organism	Carrier Population	Sample	# Carriers	# Positive
<i>Salmonella enterica</i> ATCC # 10708	5.6 x 10 <sup>4</sup> CFU/Carrier	A (60 days old)	60	0/60
	5.4 x 10 <sup>4</sup> CFU/Carrier	B	60	1/60
	4.0 x 10 <sup>4</sup> CFU/Carrier	C	60	1/60
<i>Staphylococcus aureus</i> ATCC # 6538	1.6 x 10 <sup>6</sup> CFU/Carrier	A (60 days old)	60	1/60
	1.4 x 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	1.4 x 10 <sup>6</sup> CFU/Carrier	C	60	1/60

**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>Campylobacter jejuni</i> ATCC # 29428	5.0 x 10 <sup>5</sup> CFU/ Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> 0157:H7 ATCC # 31250	1.4 x 10 <sup>5</sup> CFU/ Carrier	A	20	0/20
		B	20	0/20
<i>Listeria monocytogenes</i> ATCC # 984	2.4 x 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus mirabilis</i> Clinical Isolate	1.2 x 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
<i>Staphylococcus aureus</i> (Methicillin Resistant) (MRSA) ATCC 33591	4.2 x 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Yersinia enterocolitica</i> ATCC # 23715	4.6 x 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20

**Virucidal Testing**

This product was evaluated at 4 ounces per 5 gallons use level (625 ppm quat active), in the presence of 5% serum 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 in Canada).)



Organism	Dried Virus Control	Sample	Result	Log Reduction
Avian influenza A H5N1 Virus	4.75 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.25 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.25 Log <sub>10</sub>
Avian influenza/Turkey/Wisconsin ATCC # VR-798	7.5 Log <sub>10</sub>	A	≤1.8 Log <sub>10</sub>	≥5.7 Log <sub>10</sub>
		B	≤1.8 Log <sub>10</sub>	≥5.7 Log <sub>10</sub>
Avian Reovirus ATCC # VR-2449	6.0 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥5.5 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥5.5 Log <sub>10</sub>
Bovine Viral Diarrhea ATCC # VR-534	4.5 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Canine Coronavirus ATCC # VR-809	4.5 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Canine Distemper ATCC # VR-128	4.8 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥3.3 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥3.3 Log <sub>10</sub>
Equine Arteritis Virus ATCC # VR-796	5.75 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥5.25 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥5.25 Log <sub>10</sub>
Hepatitis B Virus	4.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
	5.0 Log <sub>10</sub>	B	≤1.5 Log <sub>10</sub>	≥3.5 Log <sub>10</sub>
	5.38 Log <sub>10</sub>	Confirmatory A	≤1.5 Log <sub>10</sub>	≥3.88 Log <sub>10</sub>
Hepatitis C Virus ATCC # CCL-22	7.14 Log <sub>10</sub>	A	≤1.08 Log <sub>10</sub>	≥6.06 Log <sub>10</sub>
	7.14 Log <sub>10</sub>	B	≤1.35 Log <sub>10</sub>	≥5.79 Log <sub>10</sub>
	7.14 Log <sub>10</sub>	Confirmatory B	≤1.08 Log <sub>10</sub>	≥6.06 Log <sub>10</sub>
Herpes Simplex Type 1 ATCC # VR-260	6.8 Log <sub>10</sub>	A	≤1.0 Log <sub>10</sub>	≥5.8 Log <sub>10</sub>
		B	≤1.0 Log <sub>10</sub>	≥5.8 Log <sub>10</sub>
Herpes Simplex Type 2 ATCC # VR-734	5.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Human Coronavirus ATCC # VR-740	4.5 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-III <sub>B</sub>	5.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Infectious Laryngotracheitis Virus (LT) Strain LT-IVAX	4.5 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
<b>Influenza A (H1N1) virus ATCC VR-1469</b>	4.5 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Influenza A2/Japan ATCC # VR-100	7.5 Log <sub>10</sub>	A	≤1.8 Log <sub>10</sub>	≥5.7 Log <sub>10</sub>
		B	≤1.8 Log <sub>10</sub>	≥5.7 Log <sub>10</sub>
Infectious Bovine Rhinotracheitis Virus (IBR) ATCC # VR-188	5.2 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥3.7 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥3.7 Log <sub>10</sub>
Infectious Bronchitis Virus Beaudette IB42	5.25 Log <sub>10</sub>	A	≤0.5 Log <sub>10</sub>	≥4.75 Log <sub>10</sub>
		B	≤0.5 Log <sub>10</sub>	≥4.75 Log <sub>10</sub>
Newcastle disease virus	6.0 Log <sub>10</sub>	A	≤1.8 Log <sub>10</sub>	≥4.2 Log <sub>10</sub>
		B	≤1.8 Log <sub>10</sub>	≥4.2 Log <sub>10</sub>
Porcine Respiratory & Reproductive (PRRSV)	5.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
Porcine Rotavirus ATCC # VR-893	4.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
Pseudorabies virus ATCC # VR-135	4.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
		B	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
Transmissible Gastroenteritis (TGE) ATCC # VR-742	5.7 Log <sub>10</sub>	A	≤2.5 Log <sub>10</sub>	≥3.2 Log <sub>10</sub>
		B	≤2.5 Log <sub>10</sub>	≥3.2 Log <sub>10</sub>
<i>Vaccinia virus</i> ATCC # VR-742	6.8 Log <sub>10</sub>	A	≤1.8 Log <sub>10</sub>	≥5.0 Log <sub>10</sub>
		B	≤1.8 Log <sub>10</sub>	≥5.0 Log <sub>10</sub>



**Mold and Mildew Control**

Use this product at 4 ounces per 5 gallons to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air-dry. Repeat application weekly or when growth or odor reappears.

Organism	Tile Number	Untreated After 7 Days	Sample A After 7 Days	Sample B After 7 Days
<i>Aspergillus niger</i> ATCC # 6275	1	Growth 80%	No Growth 0%	No Growth 0%
	2	Growth 100%	No Growth 0%	No Growth 0%
	3	Growth 80%	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 80%	No Growth 0%	No Growth 0%
	7	Growth 80%	No Growth 0%	No Growth 0%
	8	Growth 100%	No Growth 0%	No Growth 0%
	9	Growth 100%	No Growth 0%	No Growth 0%
	10	Growth 80%	No Growth 0%	No Growth 0%

**Food Contact Sanitizer (No Rinse)**

At 0.25 ounces per gallon (1 ounce per 4 gallons) (200 ppm) this product is an effective food-contact surface sanitizer eliminating 99.999% of the following bacteria in 60 seconds in 500 ppm hard water (calculated as CaCO<sub>3</sub>) according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.

Testing is performed per the AOAC method (AOAC Germicidal and Detergent Sanitizers) on 3 separate lots, one of which must be ≥ 60 days old, against both *Escherichia coli* and *Staphylococcus aureus*. Acceptable result must demonstrate a 99.999% reduction in the number of test microorganisms within 30 seconds.

Organism	Carrier Population	Sample	30 Second Kill	60 Second Kill
<i>Escherichia coli</i> ATCC # 11229	7.47 Log <sub>10</sub>	A	7.47 Log <sub>10</sub>	7.47 Log <sub>10</sub>
		B	7.47 Log <sub>10</sub>	7.47 Log <sub>10</sub>
		C	7.47 Log <sub>10</sub>	7.47 Log <sub>10</sub>
<i>Staphylococcus aureus</i> ATCC # 6538	7.0 Log <sub>10</sub>	A	7.0 Log <sub>10</sub>	7.0 Log <sub>10</sub>
		B	7.0 Log <sub>10</sub>	7.0 Log <sub>10</sub>
		C	7.0 Log <sub>10</sub>	7.0 Log <sub>10</sub>
<i>Aeromonas hydrophila</i> ATCC # 23213	8.04 Log <sub>10</sub>	A	>5.53 Log <sub>10</sub>	-
		B	>6.09 Log <sub>10</sub>	-
<i>Campylobacter jejuni</i> ATCC # 29428	7.27 Log <sub>10</sub>	A	>7.27 Log <sub>10</sub>	>7.27 Log <sub>10</sub>
		B	>7.27 Log <sub>10</sub>	>7.27 Log <sub>10</sub>
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC # 51299	8.00 Log <sub>10</sub>	A	6.10 Log <sub>10</sub>	-
		B	6.15 Log <sub>10</sub>	-
<i>Enterobacter sakazakii</i> ATCC # 29544	7.93 Log <sub>10</sub>	A	>5.37 Log <sub>10</sub>	-
	8.15 Log <sub>10</sub>	B	5.16 Log <sub>10</sub>	-
<i>Escherichia coli</i> 0111:H8 ATCC # BAA-184	7.95 Log <sub>10</sub>	A	>6.96 Log <sub>10</sub>	-
		B	>6.96 Log <sub>10</sub>	-
<i>Escherichia coli</i> 0157:H7 ATCC # 43888	8.04 Log <sub>10</sub>	A	5.15 Log <sub>10</sub>	>5.78 Log <sub>10</sub>
		B	5.07 Log <sub>10</sub>	>5.65 Log <sub>10</sub>
<i>Listeria monocytogenes</i> ATCC # 984	8.22 Log <sub>10</sub>	A	6.42 Log <sub>10</sub>	>7.30 Log <sub>10</sub>
		B	7.32 Log <sub>10</sub>	7.43 Log <sub>10</sub>
<i>Salmonella typhi</i> ATCC # 6539	8.00 Log <sub>10</sub>	A	6.70 Log <sub>10</sub>	-
		B	6.41 Log <sub>10</sub>	-





<i>Shigella dysenteriae</i> ATCC # 9361	7.87 Log <sub>10</sub>	A	>7.87 Log <sub>10</sub>	>7.87 Log <sub>10</sub>
		B	>7.87 Log <sub>10</sub>	>7.87 Log <sub>10</sub>
<i>Streptococcus pyogenes</i> ATCC # 12344	7.90 Log <sub>10</sub>	A	>6.60 Log <sub>10</sub>	-
		B	>6.90 Log <sub>10</sub>	-
<i>Yersinia enterocolitica</i> ATCC # 23715	7.88 Log <sub>10</sub>	A	>7.88 Log <sub>10</sub>	>7.88 Log <sub>10</sub>
		B	>7.88 Log <sub>10</sub>	>7.88 Log <sub>10</sub>
<i>Clostridium perfringens</i> (vegetative) (ATCC 13124)	Specific testing data and lot number not available			
<i>Escherichia coli</i> O26:H11 (ATCC BAA-1653)	Specific testing data and lot number not available			
<i>Escherichia coli</i> O45:K-:H- (ECL 1001)	Specific testing data and lot number not available			
<i>Escherichia coli</i> O103:K:H8 (ATCC 23982)	Specific testing data and lot number not available			
<i>Escherichia coli</i> O121:K-:H10 (ECL 39W)	Specific testing data and lot number not available			
<i>Escherichia coli</i> O145:H28 (ATCC BAA-1652)	Specific testing data and lot number not available			

**Non-Food Contact Surface Sanitizer**

Add ¼ ounce of this product to 1 gallon of water to sanitize hard porous and non-porous 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 *Staphylococcus 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 Log<sub>10</sub>) in the number of each test microorganism over the parallel control count within 5 minutes.

Organism	Carrier Population	Sample	60 Second Kill CFU/Carrier	Percent Kill
<i>Enterobacter aerogenes</i> ATCC # 13048	5.43 Log <sub>10</sub>	A (60 days old)	>4.03 Log <sub>10</sub>	>99.9
		B	>3.09 Log <sub>10</sub>	>99.9
		C	>3.93 Log <sub>10</sub>	>99.9
<i>Staphylococcus aureus</i> ATCC # 6538	6.55 Log <sub>10</sub>	A (60 days old)	>5.03 Log <sub>10</sub>	>99.9
		B	>5.15 Log <sub>10</sub>	>99.9
		C	>4.90 Log <sub>10</sub>	>99.9

**Fungicide**

**DECON-QUAT 100** kills the following fungi in 10 minutes at 4oz. per 5 gal. of water (625 ppm active) and 5% soil on hard, non-porous surfaces:

*Trichophyton mentagrophytes* (ATCC 9533) (Athlete’s foot fungus) (a cause of Ringworm)

Organism	Carrier Population	Sample	60 Second Kill CFU/Carrier	Percent Kill
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	Specific testing data and lot number are not available.			

## Additional Documentation

Upon request, the following additional documentation is available:

- Specific Product Testing Reports
- Safety Data Sheet – SDS# DQ-98-01
- Product Validation
- In-use Validation
- Sample lot specific documentation packages including Certificates of Sterility, Certificates of Analysis, and Certificates of Irradiation



# SCMD

***VAI's Sterile Chemical Manufacturing Division*** - SCMD manufactures a complete range of cleaning agents and disinfectants that are used daily in cleanroom operations. Overall, VAI's capabilities for manufacturing products include the ability to fill aerosol, bulk, and unit dose packages in ISO 5 (Grade A/B). Our aseptic filling operations are coupled with the validated and proven ability to irradiate a final product. Assurances are taken in every aspect of SCMD concerning sterility and particulate removal. VAI's operations mirror current GMP's and enforces the adherence to USP specifications. VAI is an EPA and FDA registered facility. To learn more about our division capabilities please visit [www.sterile.com](http://www.sterile.com).

[Patents: www.sterile.com/patents](http://www.sterile.com/patents)

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