



VELTEK ASSOCIATES, INC.

# TECHNICAL DATA FILES



## DECON-QUAT<sup>®</sup> 100

Phosphate Free Quaternary Ammonium Solution

*Claims, product registrations, and regulatory requirements may vary based on local, regional, and/or national laws and regulations. Please contact your local sales representative for information specific to your region.*

08NOV2023

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**Veltek Associates, Inc.**

15 Lee Boulevard, Malvern, PA 19355-1234

Tel: 610-644-8335 Fax: 610-644-8336 [www.sterile.com](http://www.sterile.com)

Rev: 08NOV2023 ML Rev: J-21

## **Product Overview**

**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 an effective disinfectant in the presence of 5% blood serum. **DECON-QUAT 100** inhibits bacterial growth on moist surfaces, inhibits the growth of mold and mildew and the odors caused by them. **DECON-QUAT 100** meets surface disinfection recommendations from OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV, kills Avian Influenza A Flu Viruses (H5N1) (H1N1) (H5N2), and meets efficacy standards for hard, non-porous, non-food contact surface sanitizers.

### **Cleaner – Disinfectant – Sanitizer – Deodorizer – Fungicide – Mildewstat – Virucide\***

*\*see page 14 for virucidal performance*

**DECON-QUAT 100** is filled in ISO 7 cleanroom (Grade B), 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 analytical, irradiation, and sterility data, tested to current USP compendium.

**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 7 cleanroom (Grade B)
- 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

## 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 analytical, irradiation, and sterility data, tested to current USP compendium
- Available in our convenient, one-step, ready-to-use, SimpleMix System made with USP Water for Injection (<0.25 EU/mL)
- Individually labeled with lot number and expiration
- Multiple convenient container sizes – Unit Dose, 16 oz, 1 Gallon, and 200L
- Is a disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1, HCV, and HBV), and inhibits the growth of mold and mildew and their odors when used according to the disinfection directions
- Is an effective bactericide, virucide\*, disinfectant, fungicide, and non-food contact sanitizer in the presence of organic soil (5% blood serum)
- Kills 99.9% of institutional bacteria and/or germs
- Kills Avian Influenza A Flu Virus (H5N1) (H1N1) (H5N2)
- Meets surface disinfection recommendations from OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV
- Effective fungicide against *Trichophyton interdigitale* (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 400 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

\*see page 15 for virucidal performance

## Product Uses

- General hard, non-porous surfaces
- 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.

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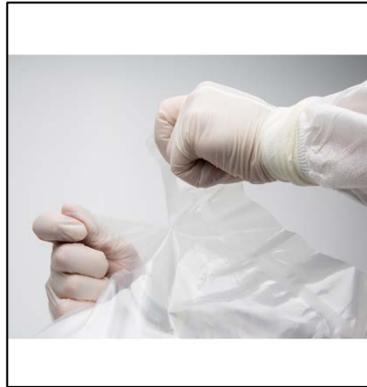
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## ABCD Cleanroom Introduction System®

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.



## SIMPLEMIX®

### 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 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. The patented SimpleMix System provides a sealed multi-chamber container that when activated mixes the solution to the correct use dilution. The small chamber holds the concentrate, and the bottom reservoir contains 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. The solution and water mix together. 200L SimpleMix systems are activated through a hose and valve system connecting the cubicontainer of concentrate to the VAI WFI Quality Water. The SimpleMix System design permits the easy transfer of the product to the aseptic manufacturing area without concern for the transfer of contamination.

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## SimpleMix Directions for Use

### **SIMPLEMIX® SYSTEM CONTAINER:**

#### **How to use the SimpleMix Trigger Spray**

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.

For pictorial directions, see page 7.

#### **How to use the SimpleMix Gallon Size**

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.

For pictorial directions, see page 8.

#### **How to use the SimpleMix 200 Liter 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.

For pictorial directions, see page 9.



## SimpleMix Trigger Spray

### **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.



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## SimpleMix Gallon

### **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.



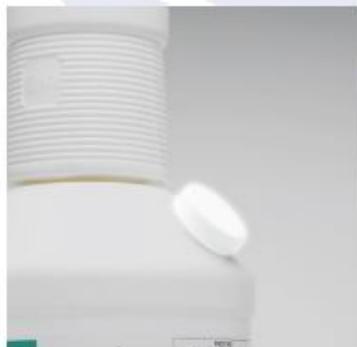
4) Replace cap and tighten.



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.

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# SimpleMix Drum

**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.



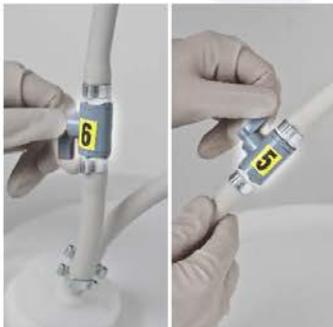
5) START pump to empty cubic container. 6) When cubic container is empty, turn pump OFF.



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.

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## Chemical Specifications

<b>DECON-QUAT 100 – Phosphate Free Quaternary Ammonium Solution</b>	
<b>Certificate of Analysis</b>	<b>Specification</b>
Appearance	Clear to straw yellow liquid
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	4.75-5.25%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) Dimethyl Ethylbenzyl Ammonium Chloride	4.75-5.25%
pH	6.0-9.0
Expiration Period	2 years

## Ordering Information

<b>DECON-QUAT 100 – Phosphate Free Quaternary Ammonium Solution</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty/cs</b>
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, 200 L SimpleMix Drum with concentrate located in cubcontainer, Sterile	1

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**Labeling**

**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		
HYPO-CHLOR 0.25%	WHITE	WHITE		
HYPO-CHLOR 0.52%	WHITE	WHITE		
HYPO-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		

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Product Labeling

# DECON-QUAT® 100

Non-Food Contact Sanitizer • Disinfectant • Fungicide • Mildewstat • Virucide\*

## DECON-QUAT® 100

Non-Food Contact Sanitizer • Disinfectant • Fungicide • Mildewstat • Virucide\*

**ACTIVE INGREDIENTS:**

Alkyl (60% C14, 30% C16, 5% C12, 5% C18)	5.0%
Dimethyl Benzyl Ammonium Chloride	5.0%
Alkyl (68% C12, 32% C14)	90.0%
Dimethyl Ethylbenzyl Ammonium Chloride	90.0%
<b>OTHER INGREDIENTS:</b>	100.0%
<b>TOTAL:</b>	100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

See below for additional precautionary statements.

**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:** 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.

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

Net Contents: 24 x 2 fl. oz.  
(Total: 1.5 Quarts)  
Reorder # DQ100-02

Net Contents: 24 x 8 fl. oz.  
(Total: 1.5 Gallons)  
Reorder # DQ100-03

Net Contents: 4 x 1 Gallon  
(Total: 4 Gallons)  
Reorder # DQ100-02

For chemical or environmental emergencies, call CARECHEM 24, 866-928-0789. EPA Reg. No. 10324-63-68959 - EPA Est. No. See the final character of the lot # L-68959-PA-1, C-68959-PA-3, T-68959-PA-2

Case Label: DQ100-00 - Sterile - SDS: Q8-01 - Rev04/23 - J-21

Vettek Associates, Inc. 15 Lee Blvd., Malvern, PA 19355-1234  
Tel: 610-644-8335 - www.sterile.com - Patents: www.sterile.com/patents

Made in USA

Peel here for additional information ➔

## DECON-QUAT® 100

Non-Food Contact Sanitizer • Disinfectant • Fungicide • Mildewstat • Virucide\*

**ACTIVE INGREDIENTS:**

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Dimethyl Benzyl Ammonium Chloride	5.0%
Alkyl (68% C12, 32% C14)	90.0%
Dimethyl Ethylbenzyl Ammonium Chloride	90.0%
<b>OTHER INGREDIENTS:</b>	100.0%
<b>TOTAL:</b>	100.0%

**KEEP OUT OF REACH OF CHILDREN  
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See side panel for additional precautionary statements.

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**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:** 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.

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

Net Contents: 24 x 2 fl. oz.  
(Total: 1.5 Quarts)  
Reorder # DQ100-02

Net Contents: 24 x 8 fl. oz.  
(Total: 1.5 Gallons)  
Reorder # DQ100-03

Net Contents: 4 x 1 Gallon  
(Total: 4 Gallons)  
Reorder # DQ100-02

For chemical or environmental emergencies, call CARECHEM 24, 866-928-0789. EPA Reg. No. 10324-63-68959 - EPA Est. No. See the final character of the lot # L-68959-PA-1, C-68959-PA-3, T-68959-PA-2

Case Label: DQ100-00 - Sterile - Rev04/23 - J-21

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

**Personal 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 must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product.

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

**Contact Time:** Allow hard, non-porous surface to remain visibly wet for 2 minutes to kill HIV and for 10 minutes to kill all other viruses and bacteria listed on the label.

**NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS**

**NON FOOD CONTACT SURFACE SANITIZING:** Pre-clean visibly soiled surfaces. Add 1 oz. of this product per gal. of water (or equivalent use dilution). Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain visibly wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.

**TO KILL FUNGI:** Pre-clean visibly soiled surfaces. Prepare use solution by adding 2 oz. of this product per gal. of water (or equivalent dilution). Apply use solution to hard, non-porous surfaces. Allow surface to remain visibly wet for 10 minutes. Wipe surfaces (and let air dry).

**TO CONTROL MOLD/MILDREW:** Pre-clean visibly soiled surfaces. Prepare use solution by adding 2 oz. of this product per gal. of water (or equivalent use dilution). Apply use solution to hard, non-porous surfaces and allow to air dry, which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every 7 days, or more often if new growth appears.

**ANIMAL PREMISES**

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

**FOR USE AS AN ANIMAL PREMISE DISINFECTANT/ VIRUCIDE:** Prepare a use solution of 2 oz. of this product per gal. of water (or equivalent use dilution). Apply use solution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Immerse all halters and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the use solution. Treated surfaces must remain visibly wet for 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house animals or employ equipment until treatment has set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, and other treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

**STORAGE AND DISPOSAL**

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

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

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

**CONTAINER HANDLING:** Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinseate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER, Corrosive.** Causes irreversible eye damage and skin burns. Harmful if swallowed, 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, chemical-resistant gloves, and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARDS**

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

Case Label DQ100-00 Rev04/23

Any specific product label is available upon request.



**Product Labeling (Continued)**

**ACTIVE INGREDIENTS:**

Alkyl (60% C14, 30% C16, 5% C12, 5% C18) Dimethyl Benzyl Ammonium Chloride.....5.0%

Alkyl (68% C12, 32% C14) Dimethyl Ethylbenzyl Ammonium Chloride.....5.0%

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

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

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

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**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:** 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.

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

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

EPA Reg. No. 10324-63-68959 • EPA Est. No. See the final character of the lot # L=68959-PA-1, C=68959-PA-3, T=68959-PA-2

Case Label: DQ100-00 • Sterile • SDS: DQ-98-01 • Rev04/23 • J-21

**Veltek Associates, Inc.** 15 Lee Blvd., Malvern, PA 19355-1234

Tel: 610-644-8335 • [www.sterile.com](http://www.sterile.com) • **Patents:** [www.sterile.com/patents](http://www.sterile.com/patents)

**Made in USA**

This product is a disinfectant and non-food contact surface sanitizer for cleanroom and laboratory areas on washable, hard, non-porous non-food contact surfaces, such as: laminar-airflow equipment, BioSafety cabinet work surfaces, and exterior surfaces of the following: countertops, sinks, plumbing fixture

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**Product Labeling (Continued)**

surfaces, and incubators, refrigerators and centrifuge surfaces of metal, stainless steel, glass, plastic such as polystyrene or polypropylene, Formica®, and vinyl.

This product is a versatile disinfectant for veterinarian, veterinary practice, animal care, animal laboratory applications.

Is a detergent, hospital-use, germicidal disinfectant, cleaner, and deodorant designed for general cleaning, disinfecting, and controlling mold and mildew on hard, non-porous surfaces.

**For Disinfection Performance, Virucidal\* Performance, Animal Premise Virucidal\* Performance, Non-food Contact Surface Sanitizing Performance, Fungicidal Performance, and Mildewstatic Performance, see Efficacy Test Summary starting on page 18.**

**DIRECTIONS FOR USE**

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

Allow surfaces to come to room temperature before treatment.

This product is not for use on medical device surfaces.

**DILUTION TABLE**

Use	Dilution	Contact Time
For Hospital or Medical Environment claims	2 oz./gal. water	10 minutes
For Public Health Virucidal* claims	2 oz./gal. water	10 minutes
For SARS-CoV-2 claims	2 oz./gal. water	2 minutes
For Animal Virucidal* claims	2 oz./gal. water	10 minutes
For Non-Food Contact Sanitizing claims at 400 ppm active	0.5 oz./gal. water	5 minutes
For Non-Food Contact Sanitizing claims at 780 ppm active	1 oz./gal. water	3 minutes
For Food Contact Sanitizing claims at 200 ppm active	1 oz./4 gal. water	1 minute
For Food Contact Sanitizing claims at 400 ppm active	2 oz./4 gal. water	1 minute
For Fungicidal claims	2 oz./gal. water	10 minutes
For Mold and Mildew claims	2 oz./gal. water	Up to 7 days

**FOR USE AS A GENERAL, HOSPITAL DISINFECTANT, VIRUCIDE\*, DEODORIZER, CLEANER:**

1. Pre-clean visibly soiled areas.
2. Prepare a solution according to SimpleMix® System Container instructions or prepare a use solution of 2 - 3 oz. of this product per gal. of water (or equivalent use dilution).
3. To disinfect hard, non-porous, non-food contact surfaces, apply use solution with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device. For spray applications spray 6 - 8 inches from surface. Do not breathe spray.
4. Treated surfaces must remain visibly wet for 2 minutes to kill SARS-CoV-2 and 10 minutes to kill other organisms listed on the label.
5. Wipe dry with a clean cloth or allow to air dry.
6. Prepare a fresh solution daily or when visibly dirty.

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**Product Labeling (Continued)**

**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) (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:** 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 must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product.

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

**Contact Time:** Allow hard, non-porous surface to remain visibly wet for 2 minutes to kill HIV and for 10 minutes to kill all other viruses and bacteria listed on the label.

**NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS**

**NON-FOOD CONTACT SURFACE SANITIZING:** Pre-clean visibly soiled surfaces. Add 1 oz. of this product per gal. of water (or equivalent use dilution). Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain visibly wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.

Use	Dilution	Contact Time
For Non-Food Contact Surface Sanitizing claims at 400 ppm	0.5 oz./gal. water	5 minutes
For Non-Food Contact Surface Sanitizing claims at 780 ppm	1 oz./gal. water	3 minutes

**FUNGICIDAL/MOLD/MILDEW**

**TO KILL FUNGI:** Pre-clean visibly soiled surfaces. Prepare a solution according to SimpleMix System Container instructions or prepare use solution by adding 2 oz. of this product per gal. of water (or equivalent dilution). Apply use solution to hard, non-porous surfaces. Allow surface to remain visibly wet for 10 minutes. Wipe surfaces (and let air dry).

**TO CONTROL MOLD/MILDEW:** Pre-clean visibly soiled surfaces. Prepare a solution according to SimpleMix System Container instructions or prepare use solution by adding 2 oz. of this product per gal. of water (or equivalent use dilution). Apply use solution to hard, non-porous surfaces and allow to air dry, which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every 7 days, or more often if new growth appears.

## Product Labeling (Continued)

### ANIMAL PREMISES

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

**FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIRUCIDE\*:** Prepare a solution according to SimpleMix System Container instructions or prepare a use solution of 2 oz. of this product per gal. of water (or equivalent use dilution).

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

### DEODORIZATION/CLEANING

**FOR USE AS A GENERAL CLEANER:** Prepare a solution according to SIMPLEMIX® System Container instructions or prepare use solution of 0.6 – 1.2 oz. of this product per gal. of water (or equivalent use dilution) and apply to hard, non-porous surfaces. Rinse or wipe up excess liquid and allow to air dry. For heavy-duty use, apply 1.2 oz. of this product per gal. of water to clean hard, non-porous surfaces. Rinse with potable water after use on surfaces that come in contact with food.

**GENERAL DEODORIZATION:** To deodorize, apply 0.6 – 1.2 oz. of this product per gal. of water (or equivalent use dilution) to hard, non-porous surfaces. Rinse or wipe up excess liquid and allow to air dry. Rinse with potable water after use on surfaces that come in contact with food.

### STORAGE AND DISPOSAL

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

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

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

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

## Product Labeling (Continued)

### 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 in eyes, on skin or on clothing. Wear goggles or face shield, chemical-resistant gloves, and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### ENVIRONMENTAL HAZARDS

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



*DECON-QUAT 100  
Sterile 1 Gallon Concentrate  
DQ100-02*

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**Testing Summary**

**Efficacy Test Summary**

DECON-QUAT 100

Phosphate Free Quaternary Ammonium Solution

<b>DECON-QUAT 100 kills the following bacteria in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:</b>	
<i>Burkholderia cepacia</i> (ATCC 25416)	<i>Pseudomonas aeruginosa</i> (ATCC 15442)
<i>Campylobacter jejuni</i> (ATCC 29428)	<i>Salmonella enterica</i> (ATCC 10708)
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	<i>Salmonella enterica</i> serovar <i>Typhi</i> (ATCC 6539)
<i>Enterococcus faecium</i> Vancomycin Resistant (VRE) (ATCC 51559)	<i>Shigella sonnei</i> (ATCC 9290)
<i>Escherichia coli</i> O157:H7 (ATCC 35150)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Klebsiella pneumoniae</i> (ATCC 13883)	<i>Staphylococcus aureus</i> Methicillin resistant (MRSA) (ATCC 33591)
<i>Listeria monocytogenes</i> (ATCC 19117)	<i>Staphylococcus aureus</i> Community Acquired Methicillin Resistant (CA-MRSA) (Genotype USA 400)
<i>Proteus mirabilis</i> (ATCC 7002)	<i>Yersinia enterocolitica</i> (ATCC 23715)

<b>DECON-QUAT 100 kills the following viruses in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:</b>	
Avian Influenza A (H5N1) Virus	Human Coronavirus (VR-740)
Avian influenza A (H5N2) virus A/Turkey/California/209092/2002 (NVSL)	Human Immunodeficiency Virus Type 1 <sup>‡</sup> (HIV-1) (AIDS Virus)
Hepatitis B Virus (HBV)	Influenza A (H1N1) Virus (VR-1469)
Hepatitis C Virus (HCV)	Influenza A/Hong Kong/8/68 Virus (VR-544)
Herpes Simplex Type 1 Virus (VR-733)	SARS-CoV-2 <sup>‡</sup> (SARS Coronavirus 2) (USA-WA1/2020)(BEI NR-52281)(COVID-19 Virus)
Herpes Simplex Type 2 Virus (VR-734)	Vaccinia Virus (VR-119)

<sup>‡</sup>Indicates a 2-minute contact time is required for this claim.



**Efficacy Test Summary (Continued)**

<b>DECON-QUAT 100 kills the following viruses in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:</b>	
Avian Infectious Bronchitis Virus (Strain Beaudette IB42)	Equine Arteritis Virus (VR-796)
Avian Influenza A (H5N1) Virus (CDC 2006719965)	Infectious Bovine Rhinotracheitis Virus (IBR) (VR-188)
Avian Influenza A (H5N2) Virus A/Turkey/California/209092/2002 (NVSL)	Newcastle Disease Virus (LaSota)
Avian Reovirus (VR-2449)	Porcine Respiratory and Reproductive Virus (PRRSV) (NVSL)
Bovine Viral Diarrhea Virus (VR-1422)	Porcine Rotavirus (VR-893)
Canine Coronavirus (VR-809)	Pseudorabies Virus (VR-135)
Canine Distemper Virus (VR-128)	Transmissible Gastroenteritis Virus (TGE)

<b>DECON-QUAT 100 is an effective food contact sanitizer in 1 minute at 1 oz. per 4 gal. of 500 ppm hard water (200 ppm active) on hard, non-porous surfaces against:</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>Cronobacter sakazakii</i> (ATCC 29544)	<i>Escherichia coli</i> O157:H7 (ATCC 43888)
<i>Enterococcus faecalis</i> (Vancomycin Resistant) (VRE) (ATCC 51575)	<i>Listeria monocytogenes</i> (ATCC 19111)
<i>Escherichia coli</i> (ATCC 11229)	<i>Salmonella enterica</i> serovar <i>Typhi</i> (ATCC 6539)
<i>Escherichia coli</i> O26:H11 (ATCC BAA-1653)	<i>Shigella dysenteriae</i> (ATCC 11835)
<i>Escherichia coli</i> O45:K-:H- (ECL 1001)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Escherichia coli</i> O103:K:H8 (ATCC 23982)	<i>Streptococcus pyogenes</i> (ATCC 12344)
<i>Escherichia coli</i> O111:H8 (ATCC BAA-184)	<i>Yersinia enterocolitica</i> (ATCC 23715)

<b>DECON-QUAT 100 is an effective one-step sanitizer in 3 minutes at 1 oz. per gal. of 400 ppm hard water (780 ppm active) and 5% soil on hard, non-porous surfaces against:</b>	
<i>Staphylococcus aureus</i> (ATCC 6538)	<i>Enterobacter aerogenes</i> (ATCC 13048)



### Efficacy Test Summary (Continued)

**DECON-QUAT 100 is an effective one-step sanitizer in 5 minutes at 0.5 oz. per gal. of 400 ppm hard water (400 ppm active) and 5% soil on hard, non-porous surfaces against:**

*Staphylococcus aureus* (ATCC 6538)

*Klebsiella aerogenes* (ATCC 13048)

**DECON-QUAT 100 kills the following fungi in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:**

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

**DECON-QUAT 100 controls the following mold at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces for up to 7 days:**

*Aspergillus niger* (ATCC 6275)

### Summary of Antimicrobial Test Results

#### General Disinfection

DECON-QUAT 100 kills the following bacteria in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Carrier Population (Log <sub>10</sub> )	Positive Carriers
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	6.84	5/60
	6.75	3/60
	6.89	3/60
<i>Salmonella enterica</i> (ATCC 10708)	5.72	1/60
	5.76	1/60
	5.83	0/60
<i>Staphylococcus aureus</i> (ATCC 6538)	6.73	0/60
	6.40	1/60
	6.82	0/60
<i>Burkholderia cepacia</i> (ATCC 25416)	5.60	0/10
		0/10
<i>Campylobacter jejuni</i> (ATCC 29428)	5.24	0/10
		0/10
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	6.13	0/10
		0/10

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### Efficacy Test Summary (Continued)

Organism	Carrier Population (Log <sub>10</sub> )	Positive Carriers
<i>Enterococcus faecium</i> (VRE) (MDR) (ATCC 51559)	4.64	0/10 0/10
<i>Escherichia coli</i> O157:H7 (ATCC 35150)	4.28	0/10 0/10
<i>Klebsiella pneumoniae</i> (ATCC 13883)	4.43	0/10 0/10
<i>Listeria monocytogenes</i> (ATCC 19117)	4.61	0/10 0/10
<i>Proteus mirabilis</i> (ATCC 7002)	4.64	0/10 0/10
<i>Salmonella enterica</i> serovar <i>Typhi</i> (ATCC 6539)	4.41	0/10 0/10
<i>Shigella sonnei</i> (ATCC 9290)	4.45	0/10 0/10
<i>Staphylococcus aureus</i> (HA-MRSA) (MDR) (ATCC 33591)	4.37	0/10 0/10
<i>Staphylococcus aureus</i> (CA-MRSA) (MDR) (NARSA NRS 123)	5.36	0/10 0/10
<i>Yersinia enterocolitica</i> (ATCC 23715)	4.55	0/10 0/10



## Efficacy Test Summary (Continued)

### Virucidal Testing

DECON-QUAT 100 kills the following viruses in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:

Virus	Carrier Population (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
Avian Influenza A (H5N1) Virus (CDC 2006719965)	6.00	≥4.50 ≥4.50
Avian Influenza A (H5N2) Virus (A/Turkey/California/209092/2002) (NVSL)	5.00	≥3.50 ≥3.50
Hepatitis B Virus (HBV) (Duck Hepatitis B Virus)	5.50	≥5.00 ≥5.00
Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus)	4.75	≥4.25 ≥4.25
Herpes Simplex Type 1 Virus (VR-733)	5.00	≥4.50 ≥4.50
Herpes Simplex Type 2 Virus (VR-734)	5.50	≥4.00 ≥4.00
Human Coronavirus (VR-740)	5.75	≥4.25 ≥4.25
<sup>‡</sup> Human Immunodeficiency Virus Type 1 (HIV) (HTLV-IIIB)	5.50	≥4.00 ≥4.00
Influenza A (H1N1) Virus (VR-1469)	6.75	≥4.25 ≥4.25
Influenza A/Hong Kong/8/68 Virus (VR-544)	5.50	≥4.00 ≥4.00
Vaccinia Virus (VR-119)	5.75	≥5.25 ≥5.25

<sup>‡</sup>Indicates a 2-minute contact time is required for this claim.

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## Efficacy Test Summary (Continued)

### Animal Premise Virucidal Testing

DECON-QUAT 100 kills the following viruses in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:

Virus	Carrier Population (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
Avian Infectious Bronchitis Virus (Strain Beaudette IB42)	5.08	4.33 ≥4.58
Avian Influenza A (H5N1) Virus (CDC 2006719965)	6.00	≥4.50 ≥4.50
Avian Influenza A (H5N2) Virus (A/Turkey/California/209092/2002) (NVSL)	5.00	≥3.50 ≥3.50
Avian Reovirus (VR-2449)	6.00	≥4.50 ≥4.50
Bovine Viral Diarrhea Virus (VR-1422)	4.75	≥4.25 ≥4.25
Canine Coronavirus (VR-809)	4.75	≥3.25 ≥3.25
Canine Distemper Virus (VR-128)	5.75	≥5.25 ≥5.25
Equine Arteritis Virus (VR-796)	5.00	≥4.50 ≥4.50
Infectious Bovine Rhinotracheitis Virus (IBR) (VR-188)	4.75	≥3.25 ≥3.25
Newcastle Disease Virus (LaSota)	6.50	≥3.00 ≥3.00
Porcine Respiratory & Reproductive Virus (PRRSV) (NVSL)	6.00	≥5.50 ≥5.50
Porcine Rotavirus (VR-893)	5.50	≥4.00 ≥4.00

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### Efficacy Test Summary (Continued)

Virus	Carrier Population (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
Pseudorabies Virus (VR-135)	5.25	≥4.75 ≥4.75
Transmissible Gastroenteritis Virus (TGE)	5.50	≥4.00 ≥4.00

### Fungicidal Testing

DECON-QUAT 100 the following fungi in 10 minutes at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Numbers Control (Log <sub>10</sub> )	Contact Time	Growth
<i>Trichophyton interdigitale</i> (ATCC 9533)	7.34	5 minutes	- / +
		10 minutes	- / -
		15 minutes	- / -

### Mildewstatic Testing

DECON-QUAT 100 controls the following mold at 2 oz. per gal. of 400 ppm hard water (1550 ppm active) and 5% soil on hard, non-porous surfaces for up to 7 days:

Organism	Tile	Untreated (% Covered)	7 Days Post Treatment (% Covered)
<i>Aspergillus Niger</i> (ATCC 6275)	1	60%	0% / 0%
	2	90%	0% / 0%
	3	80%	0% / 0%
	4	80%	0% / 0%
	5	60%	0% / 0%
	6	70%	0% / 0%
	7	60%	0% / 0%
	8	70%	0% / 0%
	9	60%	0% / 0%
	10	60%	0% / 0%

**Veltek Associates, Inc.**



## Efficacy Test Summary (Continued)

### Non-Food Contact Sanitizing Testing

DECON-QUAT 100 is an effective one-step sanitizer in 3 minutes at 1 oz. per gal. of 400 ppm hard water (780 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Carrier Population (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
<i>Enterobacter aerogenes</i> (ATCC 13048)	6.24	>3.61
	6.24	>4.66
	6.48	>4.23
<i>Staphylococcus aureus</i> (ATCC 6538)	6.66	>3.47
	6.14	>4.74
	6.19	>4.79

### Non-Food Contact Sanitizing Testing

DECON-QUAT 100 is an effective one-step sanitizer in 5 minutes at 0.5 oz. per gal. of 400 ppm hard water (400 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Carrier Population (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
<i>Enterobacter aerogenes</i> (ATCC 13048)	6.37	>3.83
	6.28	3.30
	6.34	3.11
<i>Staphylococcus aureus</i> (ATCC 6538)	6.88	>4.85
	6.15	>4.75
	6.37	>4.97

## Efficacy Test Summary (Continued)

### Food Contact Surface Sanitizing Testing

DECON-QUAT 100 is an effective food contact sanitizer in 1 minute at 1 oz. per 4 gal. of 500 ppm hard water (200 ppm active) on hard, non-porous surfaces:

Organism	Numbers Control (Log <sub>10</sub> )	Log Reduction (Log <sub>10</sub> )
<i>Escherichia coli</i> (ATCC 11229)	7.78	>7.78
	7.86	>7.86
	7.72	>7.72
<i>Staphylococcus aureus</i> (ATCC 6538)	7.59	>7.59
	7.68	>7.68
	7.36	>7.36
<i>Aeromonas hydrophila</i> (ATCC 23213)	7.41	>7.41
<i>Campylobacter jejuni</i> (ATCC 29428)	7.48	>7.48
<i>Cronobacter sakazakii</i> (ATCC 29544)	7.59	>7.59
<i>Enterococcus faecalis</i> (VRE) (ATCC 51575)	7.97	>7.97
<i>Escherichia coli</i> O26:H11 (BAA-1653)	7.46	>7.46
<i>Escherichia coli</i> O45:K:-H- (ECL 1001)	7.38	>7.38
<i>Escherichia coli</i> O103:K:H8 (ATCC 23982)	7.26	>7.26
<i>Escherichia coli</i> O111:H8 (ATCC BAA-184)	7.40	>7.40
<i>Escherichia coli</i> O121:K:-H10 (ECL 39W)	7.56	>7.56
<i>Escherichia coli</i> O145:H48 (ATCC BAA-1652)	7.77	>7.77
<i>Escherichia coli</i> O157:H7 (ATCC 43888)	7.62	>7.62
<i>Listeria monocytogenes</i> (ATCC 19111)	7.78	>7.78

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#### Veltek Associates, Inc.

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**Efficacy Test Summary (Continued)**

<b>Organism</b>	<b>Numbers Control (Log<sub>10</sub>)</b>	<b>Log Reduction (Log<sub>10</sub>)</b>
<i>Salmonella enterica</i> serovar <i>Typhi</i> (ATCC 6539)	7.80	>7.80
<i>Shigella dysenteriae</i> (ATCC 11835)	7.68	>7.68
<i>Streptococcus pyogenes</i> (ATCC 12344)	7.46	5.61 >7.46
<i>Yersinia enterocolitica</i> (ATCC 23715)	7.78	>7.78

## Additional Documentation

Upon request, the following additional documentation is available:

- Product Testing Reports
- Product Labels
- Product Validation
- Safety Data Sheet (SDS)
- Sample lot specific documentation packages delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium



*VAI's SCMD Family of Products*

**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 or 7 (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.

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