



# QUORUM<sup>®</sup> CLEAR V LICENSED



PERIOD 2014-2016 LIC. NO.  
9203.391

**Disinfectant - Sanitizer - Deodorizer - One-Step Cleaner/Disinfectant  
for Institutional and Industrial Use**

***Institutions – Dairies – Beverage and Food Processing Plants – Farm Premises –  
Poultry Premises – Poultry Hatcheries – Animal Housing Facilities***

**ACTIVE INGREDIENTS:**

Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) Dimethyl benzyl ammonium chloride .....	3.00%
Octyl decyl dimethyl ammonium chloride .....	2.25%
Didecyl dimethyl ammonium chloride.....	1.35%
Dioctyl dimethyl ammonium chloride.....	0.90%

**OTHER INGREDIENTS:**..... 92.50%

**TOTAL:**.....100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

*See side panels for Precautionary Statements,  
Storage & Disposal and First Aid instructions.*

**Net Contents: 1 U.S. gal/3.78 L**

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: CORROSIVE:** Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses) protective clothing and rubber gloves. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

**DO NOT MIX WITH ANYTHING BUT WATER**

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor 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.

**FOR EMERGENCY MEDICAL INFORMATION IN USA OR CANADA, CALL: 1-800-328-0026.**

**FOR EMERGENCY MEDICAL INFORMATION WORLDWIDE, CALL: 1-651-222-5352 (IN THE USA).**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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



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**Disinfectant - Sanitizer - Deodorizer - One-Step Cleaner/Disinfectant for Institutional and Industrial Use**

**Institutions – Dairies – Beverage and Food Processing Plants – Farm Premises – Poultry Premises – Poultry Hatcheries – Animal Housing Facilities**

**ACTIVE INGREDIENTS:**

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Didecyl dimethyl ammonium chloride.....	1.35%
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**OTHER INGREDIENTS:**..... 92.50%

**TOTAL:**.....100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

*See side panels for Precautionary Statements, Storage & Disposal and First Aid instructions.*

**Net Contents: 1 U.S. gal/3.78 L**

**DIRECTIONS FOR USE**

*Please refer to the Supplemental Hang Tag around the neck of the bottle for complete directions for use.*

**STORAGE & DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.**

**PESTICIDE STORAGE:** Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls.

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Then offer for recycling, if available, or dispose in sanitary landfill or via other procedures approved by state and local authorities. Triple rinse as follows: Fill container 1/4 full with water and re-close the container. Agitate vigorously and dispose of rinsate with pesticide disposal instructions. Repeat two more times. If not triple rinsed, these containers are acutely hazardous wastes and must be disposed in accordance with local, state and federal regulations.

EPA Reg. No. 1677-198  
EPA Est. 1677-IL-2 (J), 1677-TX-1 (D), 1677-GA-1 (M), 1677-CA-1 (S), 1677-MN-1 (P), 70271-CA-2 (A), 1677-CA-2 (R), 1677-WV-1 (V), 303-IN-1 (L).  
Superscript refers to first letter of date code.



## Disinfectant - Sanitizer - Deodorizer - One-Step Cleaner/Disinfectant for Institutional and Industrial Use

### ACTIVE INGREDIENTS:

Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%)	
Dimethyl benzyl ammonium chloride.....	3.00%
Octyl decyl dimethyl ammonium chloride.....	2.25%
Didecyl dimethyl ammonium chloride.....	1.35%
Diocetyl dimethyl ammonium chloride.....	0.90%
<b>OTHER INGREDIENTS:</b> .....	<b>92.50%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

Refer to the product label for Precautionary Statements, First Aid instructions and Storage & Disposal.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Apply *Quorum Clear V* with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray. Fresh solution must be prepared daily or when the use solution becomes visibly dirty.

#### GENERAL DISINFECTON/VIRUCIDAL\* DIRECTIONS:

At 1 oz. per 1 gallon of water, this product is an effective general disinfectant that can be used to disinfect floors, walls, finished woodwork, sink tops, garbage pails, telephones, rest rooms, bathroom fixtures, and other hard, nonporous surfaces. For heavily soiled areas, a pre-cleaning step is required. Apply disinfecting solution to surface by flushing, mopping, sponging or hand pump spraying so as to thoroughly wet surface. Allow surface to remain wet for 10 minutes. Remove solution with a clean mop, cloth, or wet vacuum pickup or allow to air dry. Prepare fresh solution at least daily or when use solution becomes visibly dirty. Any food contact surfaces that have been disinfected must be thoroughly rinsed with potable water. Do not use this product as a disinfectant on glasses, dishes or utensils.

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

*Quorum Clear V* is effective against: Avian Influenza Virus and Newcastle's Disease Virus.

#### Poultry and Swine Premise Disinfection:

1. Remove all poultry and feeds from premises, vehicles and enclosures such as coops and crates.
2. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with a detergent and rinse with water.
5. Saturate surfaces with 4.0 oz. per 4 gallons of water *Quorum Clear V* solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure.
7. Ventilate buildings, cars, trucks, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.
8. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse.

See your Ecolab representative for specific recommendations for all cleaning and rinsing requirements.

#### Poultry Hatchery Disinfection:

Use to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Clean out any remaining eggs and chicks. Remove gross soils, such as litter, down, shell fragments or other hatching related debris. Empty all racks and other equipment. Thoroughly wash all surfaces, including floors, walls, conveyors, trays and water systems with a recommended detergent. Rinse thoroughly with water. Apply 4.0 oz. per 4 gallons of water solution of *Quorum Clear V* with a mop, cloth, brush or coarse spray. Apply to hatchers, setters, trays, racks, sexing tables, delivery trucks and other hard surfaces. Wet surfaces and allow to remain wet for 10 minutes. Ventilate buildings and other closed spaces. Allow to dry before reintroducing eggs.

#### Farm Premise Disinfection Directions:

1. Remove all animals and feed from premises, vehicles, and enclosures.
2. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean surfaces with soap or detergent by manual, foam, or spray application and rinse with water.
5. Saturate surfaces with a use-solution of 4 oz. of *Quorum Clear V* per 4 gallons of water (or equivalent dilution) and allow to remain wet for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Wipe or allow to air dry.
7. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

#### Deodorizing Directions:

This product deodorizes garbage storage areas, garbage bins, toilet bowls and any other hard non-porous surfaces in odor causing areas. Mix 1/2 oz. per gallon of water and apply solution to surfaces. Thoroughly wet surfaces, allow to air dry.

#### Non-Food Contact Surface Sanitizing:

Add 0.34 oz. of *Quorum Clear V* per 1 gallon of water (200 ppm active quat) to sanitize hard, nonporous non-food contact surfaces. Apply sanitizer use-solution with a cloth, mop, sponge, sprayer or by immersion. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop, or cloth or allow to air dry.

#### Entryway Sanitizing Systems:

To prevent cross contamination from area to area, set the system to deliver sanitizing solution at 0.68 – 2.04 oz. per gallon of water (400-1200 ppm active quat). The foam (or spray) should cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor. Do not mix other foam additives to the sanitizing solution.

#### Shoe Bath Sanitizer Directions:

To prevent cross contamination into animal areas and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots (shoes) and place in solution of 0.34 oz. of *Quorum Clear V* per 1 gallon of water (200 ppm) (or equivalent dilution) for 60 seconds prior to entering area. If there is a heavy soil load or excessive traffic, place work boots (shoes) in a use-solution of 0.68 – 1.4 oz. per 1 gallon of water (400 – 800 ppm active quat)(or equivalent dilution) for 60 seconds prior to entering area. Change the solution in the bath daily or more often if solution appears diluted or soiled.

#### Shoe Foam Sanitizer Directions:

*Quorum Clear V* can be used to prevent cross contamination into animal areas and packaging and storage areas of food plants. Apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 1.36 to 2 ounces per gallon of water (or equivalent use dilution) (800 to 1200 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 60 seconds prior to entering area. Foam area must be washed and replaced daily or when it appears dirty.

*Quorum Clear V* can be used to sanitize hard, non-porous food contact surfaces such as tables, counters, utensils and food processing equipment.

*Quorum Clear V* is an effective sanitizer against *Escherichia coli* and *Staphylococcus aureus* on food contact surfaces when used at 0.25 oz. – 0.67 oz. per 1 gallon of 400 ppm hard water (150 ppm to 400 ppm active quat).

*Quorum Clear V* is an effective sanitizer against *Escherichia coli*, *Staphylococcus aureus*, *Campylobacter jejuni*, *Escherichia coli O157:H7*, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Salmonella enterica*, *Shigella sonnei*, *Yersinia enterocolitica* and *Enterobacter sakazakii* on food contact surfaces when used at 0.32 oz. – 0.67 oz. per 1 gallon of 500 ppm hard water (200 ppm to 400 ppm active quat).

#### To Sanitize Food Contact Surfaces, Food Processing Equipment and Other Hard Surfaces in (Food Processing Locations, Dairies, or Restaurants):

Use *Quorum Clear V* to sanitize pre-cleaned hard non-porous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage areas and display equipment and other hard non-porous surfaces in federally inspected meat and poultry plants or restaurants. Prior to application, remove gross food particles and soil by a pre-flush, pre-scrape or when necessary, a pre-soak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution. Apply a use-solution of 1 oz. to 2.67 oz. of *Quorum Clear V* per 4 gallons of 400 ppm hard water (150 - 400 ppm active quat) or 1.25 oz. to 2.67 oz. of *Quorum Clear V* per 4 gallons of 500 ppm hard water (200 - 400 ppm active quat). Expose all surfaces to the sanitizing solution for a period of not less than 1 minute.

Allow equipment to drain thoroughly and air dry.

In dairy processing facilities and restaurants in Wisconsin, clean equipment with a good detergent and follow with a potable water rinse, then rinse equipment with a sanitizing solution of 1.25 oz. to 2.67 oz. of *Quorum Clear V* per 4 gallons of 500 ppm hard water (200 - 400 ppm active quat).

#### For Continuous Treatment of Conveyors:

Remove gross food particles and excess soil by a pre-flush or pre-scrape. Wash with a good detergent or compatible cleaner. Rinse equipment thoroughly with potable water, then rinse equipment with a sanitizing solution. During processing, apply *Quorum Clear V* at a 150 to 400 ppm quat level to conveyors with *MIKRO MASTER* or other suitable feeding equipment. Controlled volumes of sanitizer are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. During interruptions in operation, coarse spray equipment, peelers, collators, slicers and saws with *MIKRO MASTER* dispensed *Quorum Clear V* solution of 150 to 400 ppm quat. Conveyors and other equipment must be free of product when applying this coarse spray. Use 200 ppm to 400 ppm quat level in Wisconsin dairy processing facilities.

#### Sanitizing Shell Eggs Intended For Food:

To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of 1 oz. to 2.67 oz. of *Quorum Clear V* in 4 gallons of warm water (150 to 400 ppm). The solution must be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with *Quorum Clear V* shall be subjected to a potable water rinse only if broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. Do not reuse solution for sanitizing eggs.

**Note:** Only clean, whole eggs can be sanitized. Dirty, cracked or punctured eggs cannot be sanitized.

#### Sanitizing – Non-Porous Gloved Hands:

To prevent cross contamination into animal areas and the packaging and storage areas of food plants, dip, soak or spray pre-washed (plastic, latex or other synthetic rubber) gloved hands so that there is enough sanitizing solution to cover the gloved area. For sprayer applications, use a coarse spray device and spray the glove surfaces until thoroughly wetted. Do not breathe spray. **Do not let sanitizing solution come in contact with exposed skin.** Make up the sanitizing solution by adding 1 to 2.67 ounces of product per 4 gallons of water (or equivalent use dilution) (150-400 ppm active quat). Dip, soak or spray in solution and allow gloved hands to remain wet for at least 60 seconds. Allow them to air dry. No potable water rinse is allowed. Change the sanitizing solution at least daily or when solution appears dirty.

#### Directions for Fogging:

To sanitize hard, non-porous room surfaces in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cu. ft. of room area with a *Quorum Clear V* solution containing 1.5 oz. *Quorum Clear V* to 1 gallon of water (900 ppm). A dust mist respirator must be worn when applying the product to the fogging equipment. Vacate the area of all personnel for minimum of 2 hours after fogging. The facility must undergo a minimum of 4 air exchanges (ACH) per hour. All food contact surfaces must be sanitized with a *Quorum Clear V* solution of 150 to 400 ppm active quaternary (1 oz. to 2.67 oz. per 4 gallons) prior to reuse. Allow food contact surfaces to drain thoroughly before operations are resumed.

**Note:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has settled. **Do not allow people or animals to contact or breathe this fog for a minimum of 2 hours.** If the building or room must be entered, then the individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants. Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room and machine surfaces.

#### Sanitizing Hatchery Rooms Using Fogging Devices:

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls, and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 187 ounces of this product to 2.5 gallons water. A dust mist respirator must be worn when applying the product to the fogging equipment. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. The facility must undergo a minimum of 4 air exchanges (ACH) per hour. Do not house livestock or employ equipment until treatment has been absorbed or dried. **Do not allow people or animals to contact or breathe this fog for a minimum of 2 hours.** Thoroughly clean all surfaces with soap or detergent and rinse with water. Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room and machine surfaces.

#### NOTE:

**FOR MECHANICAL OPERATIONS:** A prepared use solution may not be reused for sanitizing, but may be reused for other purposes such as cleaning.

**FOR MANUAL OPERATIONS:** Prepare a fresh sanitizing solution as soon as it becomes diluted or soiled.

EPA Reg. No. 1677-188

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Superscript refers to first letter of date code.

