

# {Front Panel}

{Braces for review only, Not on Label}

## Q.A.<sup>®</sup> Concentrated Solution

ODORLESS  
SANITIZER  
DISINFECTANT  
DEODORIZER

Fungicide – Mildewstat – Virucide

With Organic Soil Tolerance for (Hospitals) (Nursing Homes) (Day Care Centers)

For use in (Institutional) (Industrial) (School) (Dairy) (Equine) (Veterinary)  
(Poultry/Turkey Farms) and (Poultry) Sanitation, (Swine Premise Sanitation) (Mushroom  
Farm Sanitation) (Salon/Barber Shop Tools & Instruments) (Waterbed Conditioner)  
(Disinfecting Athletic Equipment Surfaces)

For use in Food Handling and Process Areas in (Restaurants) (Bars) (Institutional  
Kitchens) (Federally Inspected Meat & Poultry Plants)

Use to Sanitize (Ice Machines) (Water Coolers) and (Holding Tanks)

ANY PUBLIC SPACE INCLUDING (Homes) (Hotels & Motels) (Whirlpools) (Kitchens)  
and (Bathrooms)

### ACTIVE INGREDIENTS:

Alkyl (C <sub>14</sub> 60%, C <sub>16</sub> 30%, C <sub>12</sub> 5%, C <sub>18</sub> 5%) dimethyl benzyl ammonium chloride	5.0%
Alkyl (C <sub>12</sub> 68%, C <sub>14</sub> 32%) dimethyl ethylbenzyl ammonium chloride	5.0%
INERT INGREDIENTS:	<u>90.0%</u>
TOTAL:	100.00%

### DANGER: KEEP OUT OF REACH OF CHILDREN

See (left) (back) (side) (right) panel (of label) (below) for additional precautionary  
statements and first aid statements.

EPA REG. NO. 6198-4

EPA EST. NO. 6198-MN-1, 6198-MN-2

(1 quart) (32 oz.) (946 ml) (1 gallon) (3.79L) (5 gallons) (18.95 L) (15 gallons) (20 gallons) (55 gallons)

Lot Number:

Mfg. by National Chemicals, Inc., PO Box 32, Winona, MN 55987 1-800-533-0027 [www.NationalChemicals.com](http://www.NationalChemicals.com)  
Q.A.<sup>®</sup> is a registered trademark.

# {Back Panels}

## DISINFECTION PERFORMANCE:

Q.A.® is bactericidal according to the AOAC Use Dilution Test Method on hard inanimate surfaces modified in the presence of 5% organic serum. It is viricidal in the presence of 5% organic serum. This product kills the following bacteria, viruses:

*Pseudomonas aeruginosa*  
*Staphylococcus aureus*  
*Staphylococcus aureus Methicilin Resistant (MRSA)*  
*Klebsiella pneumonia*  
*Listeria monocytogenes*  
*Salmonella typhi*  
*Salmonella enterica*  
*Shigella sonnei*  
*Escherichia coli O157:H7*  
*Proteus mirabilis*  
*Enterococcus faecium Vancomycin Resistant (VRE)*  
*Campylobacter jejuni*  
*Botrylis cinerea*  
*Burkholderia cepacia*  
*Yersinia enterocolitica*  
*Corynebacterium ammonlagenes*  
*Hepatitis B Virus*  
*Hepatitis C Virus*  
*HIV-1*  
*Influenza A2 Japan Virus*  
*Vaccinia Virus*  
*Infectious Bronchitis Virus*  
*Herpes Simplex Type 1 and Type 2 Virus*  
*Human Coronavirus*  
*Avian Influenza A H5N1*

**FUNGICIDAL PERFORMANCE:** Q.A.® is effective on hard, non-porous surfaces against the following:

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

**MILDEWSTATIC PERFORMANCE:** Q.A.® controls the following mold at 4 oz. per 5 gal. of water (625 ppm active) on hard, non-porous surfaces: *Aspergillus niger* {(ATCC 6275)}

## DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

NOTE: Use a quaternary ammonium chloride test kit to verify ppm. Q.A.® Test Kits are available at [www.NationalChemicals.com](http://www.NationalChemicals.com)

**SANITIZING FOOD CONTACT SURFACES in public eating places, dairy & food processing equipment & utensils, beverage dispensing equipment, brewing & wine making equipment**

Add 1/4 oz. of Q.A.® to each 1 gallon of water. Makes 200 ppm active quaternary sanitizing solution.

NO POTABLE WATER RINSE IS ALLOWED AFTER SANITIZING.

## FOR WASHING AND SANITIZING GLASSES-DISHES-UTENSILS IN EATING & DRINKING PLACES

1. Scrape and prewash glasses, dishes, etc. whenever possible.
2. Wash with a good detergent (TDC®, LFD®, BLU-MAGIK®, CRAFT MEISTER®).
3. Rinse thoroughly with plain water. Do not add any chemicals to this water
4. Sanitize in solution of 1/4 oz. Q.A.® per 1 gallon of water (200 ppm sanitizing solution). Allow surfaces to remain wet for 1 minute. Check with your Health Department as requirements may vary.
5. Place sanitized items on rack or drain board to air-dry. NEVER TOWEL DRY.
6. Prepare fresh sanitizing solution at least daily or when visibly soiled or diluted.

## **FOR SANITIZING FOOD AND BEVERAGE PROCESSING EQUIPMENT AND OTHER HARD SURFACES IN FOOD/BEVERAGE PROCESSING PLANTS, DAIRIES**

1. Remove or protect all food products and packaging materials in the area.
2. Prior to application remove gross food particles and soil by pre-flush, pre-scrape or presoak of all surfaces.
3. Thoroughly wash or flush with a compatible detergent or cleaner.
4. Rinse surfaces with potable water
5. Apply sanitizing solution of ¼ oz. of Q.A.® per gallon of water (200 ppm sanitizing solution) to equipment and hard, non-porous surfaces by immersion, spraying or swabbing with a cloth, sponge or mop. Keep surfaces wet for 10 minutes or contact time required by your Health Department. For Spray applications use a coarse (mist) spray 6-8 inches from the surface.
6. Allow all surfaces to adequately drain and air dry prior to contact with food or beverage. Do Not Rinse.
7. Prepare a fresh sanitizing solution daily or when solution becomes visibly dirty. Mechanical application of Q.A.® sanitizing solution cannot be reused.

## **FOR SANITIZING INTERIOR HARD, NON-POROUS SURFACES OF ICE MACHINES, WATER COOLERS, WATER HOLDING TANKS, PRESSURE TANKS, REFRIGERATED STORAGE AND DISPLAY EQUIPMENT**

1. Turn off water supply and refrigeration if possible.
2. Wash all non-porous surfaces with compatible detergent or cleaner. Remove hard water build-up and scale with a nickel-safe ice machine cleaner like Ice Machine Cleaner from National Chemicals.
3. Rinse surfaces with potable water.
4. Apply sanitizing solution of ¼ oz. of Q.A.® per gallon of water (200 ppm sanitizing solution) to equipment and hard, non-porous surfaces by mechanical spray, direct pouring or by recirculating through the system. Keep surfaces wet for 1 minute or contact time required by your Health Department.
5. Thoroughly drain surfaces and system, Allow to dry prior to use. Do Not Rinse.
6. Return machine to normal service.
7. Sanitation should occur after initial installation, after the unit is serviced and periodically during its use.

## **FOR SANITIZING BEVERAGE DISPENSING AND FILLING EQUIPMENT**

1. Thoroughly clean all bottling or pre-mix dispensing equipment with a compatible detergent or cleaner.
2. Rinse equipment with potable water.
3. Fill equipment with sanitizing solution of ¼ oz. of Q.A.® per gallon of water (200 ppm sanitizing solution) to equipment and hard, non-porous surfaces and remain in equipment for at least 1 minute or until operations resume.
4. Drain sanitizing solution from the equipment and allow to air dry before reuse. Do Not Rinse.
5. Return equipment to normal service.

## **FOR SANITIZING NON-FOOD, HARD, NON-POROUS SURFACES**

Use to sanitize Whirlpool Units, Ultrasonic Baths, Entryway/Shoe Baths.

Pre-clean soiled objects.

After using the whirlpool unit, drain and refill with fresh water to cover the intake valve. Add ¼ ounce of Q.A.® for each gallon of water. Briefly run the pump to circulate the solution. Stop the pump and wash down sidewalls, chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 3 minutes. Drain the unit and rinse all surfaces with fresh water.

Sanitize ultrasonic bath equipment by adding ¼ ounce of Q.A.® per gallon of water in bath chamber. Place objects into the bath chamber and operate of at least 3 minutes according to manufacturer's directions. Remove objects and rinse with sterile injectable water or allow to air dry. Replace solution daily or when solution becomes dirty or discolored.

For entryway sanitizing systems scrape waterproof shoes prior to treatment. Use a foam generating machine or aerator to make a foam layer 0.5 to 2 inches thick at the entrance. Add 1 to 1.5 ounces of Q.A.® per gallon of water in the foam making equipment (781 to 1172 ppm active quaternary solution). Stand or walk through foamed area for 3 minutes prior to entering. For a sanitizing shoe bath use ¼ ounce of Q.A.® per gallon of water in the bath tray containing one inch of solution. Stand or place shoes in bath for 3 minutes prior to entering.

Foamed areas should be washed and replaced daily or when dirty. Shoe bath solutions should be replaced daily or when it appears dirty.

### **TO DISINFECT AND DEODORIZE HARD, NON-POROUS SURFACES**

Add 4 oz. of Q.A.® to 5 gallons of water (0.8 oz. per 1 gallon).

Makes 625 ppm active quaternary disinfecting solution.

Treated surfaces must remain wet for 10 minutes.

For HBV and HCV use 625 ppm for 10 minutes.

At this use level Q.A.® is bactericidal in the presence of 5% organic serum against selected listed microbes.

For HIV use 4.5 oz. to 5 gallons of water (703 ppm) for 2 minutes.

Not for use on Medical device surfaces. This product is not to be used as a terminal sterilant or high-level disinfectant on any surface or instrument that:

1. Is introduced directly into the human body, either into or on contact with the bloodstream or normally sterile area of the body
2. Contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body.
3. Q.A.® may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

### **TO DISINFECT HARD, NON-POROUS FOOD CONTACT SURFACES**

Before using Q.A.®, food products and packaging material must be removed from the area or carefully protected.

Use to disinfect countertops, exterior surfaces of appliances, tables, floors, walls and storage areas.

Not for use as a disinfectant on glasses, dishes, utensils or food processing equipment.

For heavily soiled areas, a pre-cleaning step is required.

Apply Q.A.® Solution of 4 oz. of Q.A.® to 5 gallons of water (0.8 oz. per 1 gallon) with a mop, sponge or hand pump trigger spray device (course spray).

Allow to remain wet for 10 minutes.

Remove excess liquid and rinse the surface with potable water. ALLOW TO AIR DRY.

### **FOR GENERAL OR BROAD SPECTRUM DISINFECTING IN HOSPITAL, MEDICAL, DENTAL, NURSING HOMES OR VETERINARY ENVIRONMENTAL USE ON HARD NON-FOOD SURFACES**

Add 4 ounces of Q.A.® to 5 gallons of water (0.8 oz. per 1 gallon) makes 625 ppm active quaternary disinfecting and virucidal solution.

For HIV use 4.5 ounces to 5 gallons of water (703 ppm) for 2 minutes contact time.

For HBV and HCV use 625 ppm for 10 minutes contact time.

### **TO DISINFECT HARD, NON-POROUS SURFACES: Walls, Floors, Counters, Tables, Chairs, Bathing Areas, Lavatories, Sinks, Bed Frames, Garbage Pails, Tile, Cages, Litter Boxes, Barber & Salon Tools (such as Combs, Brushes, Razors & other Hard Non-Porous Surfaces).**

**In Hospitals, Dental Offices, Nursing Homes, Veterinary Clinics, Zoos, Agricultural and Farm Premise, Dairy and Food Processing Equipment, Mushroom Farms, Florists, Pet Shops / Kennels, Home, Schools, Barber Shop / Salon Tools, Hotel, Motels, Dormitories and Day Care.**

1. CLEANSE – Thoroughly wash with compatible synthetic detergent or cleaner. See CHEMICAL HAZARDS for compatible detergents.
2. RINSE – Thoroughly rinse with plain potable water.
3. DISINFECT – Immerse items or apply Q.A.® disinfecting solution prepared by adding 4 oz. of Q.A.® to 5 gallons of water (0.8 oz. per 1 gallon) with a clean cloth, sponge, mop or coarse (mist) spray (mist spray not allowed in California). Allow at least 10 minutes wet contact time. Health Codes may vary so check local government codes.  
NOTE: With spray application do not breath spray, cover or remove food products. Prepare a fresh Solution at least daily.
4. DRAIN – RINSE thoroughly with potable water (if permitted by code). ALLOW TO AIR DRY.

### **TO DISINFECT BARBER SHOPS AND BEAUTY SALON INSTRUMENTS**

Pre-clean hard, nonporous instruments and tools.

Completely immerse combs, brushes, rollers, manicure and other salon and barber instruments in a solution of 0.8 oz. Q.A.® per gallon of water for 10 minutes.

Plastic instruments may remain immersed until ready for use.  
Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.  
Rinse thoroughly and dry before use.  
Prepare a fresh solution daily.  
Do not re-use solutions.  
Discard solutions when they become visibly soiled or diluted.

#### **TO DISINFECTION-FUNGICIDE-VIRUCIDE FARM PREMISE, POULTRY, TURKEY, SWINE QUARTERS, EQUINE QUARTERS, ANIMAL QUARTERS, KENNELS, MACHINE SURFACES AND EQUIPMENT**

Remove all animals and feeds from the premises, vehicles and enclosures.  
Remove all litter, droppings and manure from floors, walls and surfaces. The efficiency of any germicide is reduced in the presence of heavy organic matter.  
Empty all troughs, racks and feeding/watering appliances.  
Thoroughly clean all surfaces with a compatible detergent or cleaner.  
Rinse with water.  
Saturate all surfaces with a solution of 4 ounces of Q.A.<sup>®</sup> per 5 gallons of water for a 10 minute wet contact time.  
Immerse all halters, ropes, equipment used in handling/restraining animals and forks, shovels, scrappers used in removing litter/manure.  
All treated feeding racks, mangers, troughs, fountains and watering equipment must be rinsed with potable water before reuse.  
After application, ventilate buildings, coops and other closed spaces until surfaces are set or dried before bringing poultry or other animals back into the treated area.

#### **FOR USE AS A LAUNDRY DEODORIZER**

Against odor causing bacteria in conditions of high relative humidity or wet contamination.  
Use 3.5 ounces of Q.A.<sup>®</sup> per 100 pounds of dry fabric weight diluted in 1 to 2 gallons of water. Add solution to the laundry in the final rinse cycle. Laundered fabric may be treated by soaking. Re-treat fabric after each washing.

#### **FOR USE AS A CARPET CLEANER/DEODORIZER**

For home, institutional (motel, hotel, schools), industrial, hospital and nursing home use.  
Use as a carpet sanitizer is not permitted in California.  
Vacuum carpet thoroughly prior to application.  
Test fabric for color fastness.  
For use on wet cleanable synthetic fibers. Do not use on wool carpets. Do not over wet.  
Do not mix with other cleaning products.

For Portable Extraction Carpet Machines mix ½ ounce of Q.A.<sup>®</sup> per gallon of water.

For Truck Mounted Extraction Machines mix 12 ounces of Q.A.<sup>®</sup> per gallon of water and meter at 4 gallons per hour.

For Rotary Floor Machines mix 1 ounce of Q.A.<sup>®</sup> per gallon of water and apply at the rate of 300 to 500 square feet per gallon.

After using set the carpet pile and protect the carpet from furniture legs, bases, etc. with aluminum foil while drying.

## FUNGICIDAL DIRECTIONS:

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Use as directed at 4 ounces (of (this product) (Product Name)) per 5 gallons of water (or equivalent use dilution). Allow surface to remain wet for ten (10) minutes. Wipe surfaces or let air dry.

### **TO CONTROL MOLD & MILDEW ON NON-POROUS SURFACES:**

Use on inflatable non-porous plastic and rubber surfaces, athletic equipment, play and exercise equipment.

Thoroughly wash all surfaces with compatible detergent or cleaner.

Rinse with potable water.

Add 4 ounces of Q.A.® per 5 gallons on water and saturate surfaces for a period of 10 minutes.

Allow to dry on surface and repeat treatment every seven days or when new growth appears.

Ventilate buildings and other closed spaces during treatment.

### **FOR WATER AND SMOKE DAMAGE RESTORATION**

Not for use in California. For sewer backup and river flooding.

Remove gross filth or heavy soil along with non-salvageable materials.

Effective against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackless strip and paneling.

Using recommended solutions saturate affected materials with enough solution to keep wet for at least 10 minutes. Use proper ventilation.

For water damage from a clean water source, extract excess water. Test for colorfastness of carpets and fabrics. Dilute 1 to 2 ounces of Q.A.® per gallon of water (781-1562 ppm active quat), allowing for the diluting effect of absorbed water within saturated materials. Apply directly to surfaces, roll, brush or agitate into materials and keep wet for at least 10 minutes. Thoroughly extract solution from area and dry rapidly and thoroughly.

## FIRST AID

**NOTE:** Have a product container or label with you when contacting the Poison Control Center or physician 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. Call a Poison Control Center or Physician 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 physician for treatment advice.

**IF SWALLOWED:** Call a Poison Control Center or physician 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 the Poison Control Center or physician. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Possible mucosal damage may contraindicate the use of gastric lavage. For information on product, usage, etc. call 1-800-533-0027. Product labels, Material Safety Data Sheets can be found at [www.NationalChemicals.com](http://www.NationalChemicals.com). For information on health concerns, medical emergencies or pesticide incidents, call the National Pesticide Information Center at 1-800-858-7378.

## PRECAUTIONARY STATEMENTS

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

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

**PHYSICAL AND CHEMICAL HAZARDS:** Do not mix with oxidizers, anionic soaps and detergents.

**ENVIRONMENTAL HAZARDS:** (5 gallons or greater): Toxic to fish. Do not discharge effluent containing Q.A.® into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing Q.A.® to sewer systems without previously notifying the local sewage treatment authority. For guidance contact your State Water Board or Regional Office of the E.P.A.

## **STORAGE AND DISPOSAL**

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

### **STORAGE:**

Store in original container in areas inaccessible to small children or persons unfamiliar with its proper use. Do not reuse empty container. Open dumping is prohibited.

### **Q.A.® SOLUTION DISPOSAL:**

Wastes resulting from the use of Q.A.® must be disposed of on site or at an approved waste disposal facility. Wastes are acutely hazardous. Improper disposal is a violation of federal law.

### **CONTAINER HANDLING:**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

{CONTAINERS FIVE (5) GALLONS AND SMALLER:}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for ten (10) seconds after the flow begins to drip. Fill container ¼ full with water and recap. Shake for ten (10) seconds. Dispose of rinsate as pesticide waste. Drain for ten (10) seconds after flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state & local authorities, by burning. If burned, stay out of smoke.

{CONTAINERS LARGER THAN FIVE (5) GALLONS:}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll 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 on to its other end and tip back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state & local authorities, by burning. If burned, stay out of smoke.