



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 26, 2019

Michael A. Chaplar  
VP Marketing  
Unit Chemical Corporation  
7360 Commercial Way  
Henderson, NV 89011

Subject: Label and CSF Amendment – Add food contact surface sanitizer claim  
Product Name: UNIT QA-40 Disinfectant, Sanitizer and Deodorant Beads  
EPA Registration Number: 507-4  
Application Date: December 19, 2018  
Decision Number: 550049

Dear Mr. Chaplar:

The amended label and CSF(s) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 12/18/2018
- Alternate CSF-RED dated 12/18/2018
- Alternate CSF-BLUE dated 12/18/2018
- Alternate CSF-YELLOW dated 12/18/2018

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the

website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Mohammad Alavi by phone at (703) 347-0522, or via email at [Alavi.mohammad@epa.gov](mailto:Alavi.mohammad@epa.gov).

Sincerely,

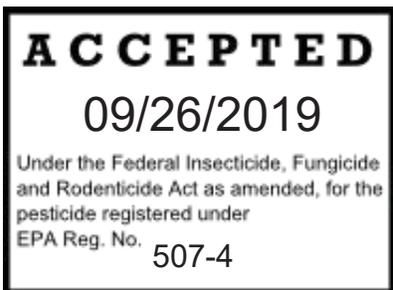


Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

# UNIT QA-40

## DISINFECTANT, SANITIZER AND DEODORANT BEADS



### ACTIVE INGREDIENTS

n-Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>)  
dimethyl benzyl ammonium chlorides. . . . .40.0%

**INERT INGREDIENTS:** . . . . .60.0%

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

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

See side panel for additional precautionary statements.

Manufactured by  
Unit Chemical Corporation, Henderson NV 89011  
(800) 879-8648 - (702) 564-6454 [www.unitchemical.com](http://www.unitchemical.com)

[Distributed by] [Manufactured for]  
[Company Name, Company Address]  
[Company Phone Number[s]]  
[Company Logo] [Company Website]

EPA Reg. No. 507-4  
EPA Est. No. 507-NV-001 [EPA Est. No.]  
Net Contents: xx [lbs.] [oz.] [g]  
[Batch No] [Lot No] [Manufacturing Date]:  
[Product of USA] [Made in the USA]

[FOR INDUSTRIAL USE]

### FIRST AID

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 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 immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

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

**DANGER.** Corrosive. Causes irreversible eye and skin burns. Do not get into eyes, on skin or on clothing. Wear goggles or face shield, protective clothing, and rubber gloves. Harmful if swallowed. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### **ENVIRONMENTAL HAZARDS** *{Only required for containers greater than 50 lbs.}*

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 or local provincial government.

### *{Optional Label Marketing Claims}*

- Disinfecting and deodorant beads
- Disinfecting and sanitizing beads
- Disinfecting, sanitizing and deodorant beads
- Destroys the cause of odors - Leaves no odor of its own
- Controls Odors
- A multi-use germicidal disinfectant, sanitizer and true deodorant
- No chlorine taste or odor
- Dissolves instantly in warm or cold water
- Does not harm any surface not harmed by water

- UNIT-QA-40 [Product Name] disinfectant, sanitizer and deodorant beads is formulated in a unique process to produce a rapidly soluble, free-flowing easily handled product.

## GENERAL DISINFECTION

### DIRECTIONS FOR USE

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

#### FOR USE AS A GENERAL PURPOSE DISINFECTANT:

1. Pre-clean heavily soiled areas.
2. Apply use solution of [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per gallon of water [(400 ppm active)][(or equivalent use dilution)] to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, [by immersion], [auto scrubber], [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 visibly wet for 10 minutes.
4. [Wipe dry] [with a clean cloth] [or] [allow to air dry.] [Rinsing of floors is not necessary unless they are to be waxed or polished.]
5. Prepare a fresh solution daily or when visibly dirty.

#### NON-ACID TOILET BOWL (AND URINAL) DISINFECTANT DIRECTIONS

Remove gross filth prior to disinfection. Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat for disinfection and allow to stand for 10 minutes and flush.

#### For Use To Clean and Disinfect Shower Rooms, Locker Rooms and Other Large Open Areas with Floor Drains:

1. Pre-clean heavily soiled areas.
2. Apply Use Solution of [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per gallon of water [(400 ppm active)][(or equivalent use dilution)] to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain visibly wet for ten (10) minutes.

**Special instructions for foam guns:** Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per every ounce of water. Pour this concentrate into foam gun bottle and attach to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun

instructions for more information. Make sure setting is set for 1:128 dilution (400 ppm active). Once in place, squeeze the handle to dispense foam solution. To disinfect, all surfaces must remain visibly wet for ten (10) minutes.

3. Scrub using deck brush or other coarse material as necessary.
4. Let air dry.

**PERFORMANCE:** When used and tested with full immersion for 10 minutes in a use solution prepared according to above directions, [product name] [this product] germicide has been found to be effective as a disinfectant and as a fungicide (against *Trichophyton interdigitale* [formerly *Trichophyton mentagrophytes*]), and as a virucide against \*influenza A and human immunodeficiency virus Type 1 (HIV-1, AIDS virus) on hard, nonporous, inanimate environmental surfaces.

**\*KILLS HIV-1 (AIDS VIRUS) ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate 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 I (HIV-1) (AIDS VIRUS).

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

At [1.9g per gallon] {or} [3.8g per 2 gallons] of water for a 4-minute contact time, [product name] [this product] was found to be effective against HIV-1 (AIDS Virus).

**PERSONAL PROTECTION:** Clean up must always be done wearing protective latex gloves, gowns, masks and eye protection.

**CLEANING PROCEEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**CONTACT TIME:** Leave surface visibly wet for 4 minutes for HIV-1. This 4 minute contact time will not control other organisms listed on this label.

## GENERAL DEODORIZING

### DEODORIZING SOLUTION *(Not for use in California)*

**General Deodorization:** To deodorize, add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per quart of water [(or equivalent use dilution)]. Spray or mop area to be deodorized concentrating on spraying or mopping near source of odor. Wipe up excess material allow to air dry.

**Multi-Purpose Deodorant Solution:** Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per quart of water [(or equivalent use dilution)]. Wet wipe, mop or spray. This product will not harm any surface not harmed by water.

**Toilet Bowl-Urinal-Sink-[Shower Stall and Bath] Tub - DRY METHOD:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] with each fixture to be deodorized. Pour this product into each bowl or drain opening, let stand. Repeat daily until odor disappears, then perform weekly.

**Toilet Bowl-Urinal-Sink-[Shower Stall and Bath] Tub - WET METHOD:** Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per quart of water [(or equivalent use dilution)]. Solution is enough for one individual application. Scrub fixture or area with solution; pour some solution down drain. Repeat daily until odor disappears, then perform weekly.

**Urinal, Bedpan & Commode Deodorant:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per container [(or equivalent use dilution)]. Add this product to bottom of container and cover with approximately 1 inch of water. Leave solution in container during use.

**Garbage Pail Deodorant:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per pail [(or equivalent use dilution)]. Clean pail in regular manner. Add this product to bottom of pail and cover with approximately 1 inch of water, swish and let stand. Leave solution in container during use.

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of this product per quart of water [(or equivalent use dilution)].

**Soiled Diaper and Laundry Container Deodorant:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per pail [(or equivalent use dilution)]. Clean pail in regular manner. Add this product to bottom of pail and cover with approximately 1 inch of water, swish and let stand. Leave solution in container during use.

**Fish & Meat Department Deodorant:** Apply [Product Name] [this product] evenly to the floor, at a rate of 1.2 - 2.4 grams per 29.73 square meters, 1-2 oz. per every 752 square foot. Sprinkle this product over area to be deodorized and hose down. Rinse surfaces coming in contact with food with potable water before use.

**For Odors Caused by Dogs, Cats and Other Domestic Animals:** Use on rugs, floors, walls, tile, cages, crates, litter boxes, mats, floor coverings, or any surface soiled by a pet. Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per quart of water [(or equivalent use dilution)]. Test a small inconspicuous area first. Blot problem area. Saturate pre-cleaned area with a solution of enough of this product to remain damp for at least 10 minutes, then blot with a clean cloth. Repeat if necessary. This product is effective on bedding and litter boxes. Allow to air dry.

**Drain Deodorant:** Use [four 3.8g] {or} [eight 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per drain. Empty this product into drain and follow with hot or cold water. Repeat daily until odor disappears, then add when needed. Rinse surfaces coming in contact with food with potable water before use.

**Heating & A/C Filter Deodorant:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per gallon of water [(or equivalent use dilution)]. Soak filters in this product solution for at least five (5) minutes and remove. Shake and let air dry if possible.

**Truck Beds, Freight & Passenger Car Deodorant:** Add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per quart of water [(or equivalent use dilution)]. Spray or swab area to be deodorized with this product solution. Let stand for as long as practical.

**[Latrine] [Toilet] Deodorant:** Use [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] of [product name] [this product] per gallon of water [(or equivalent use dilution)]. Pour this product solution into area that will contain waste. Repeat as often as necessary.

**RV Holding Tanks/Recreational Vehicles:** Toilet Waste Holding Tanks (Black Water): Cover bottom of holding tank with water and add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)]. If odors return before time to empty add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] to the tank. For kitchen waste, add [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] to gray water tank as needed to control malodors created by dirty dishwasher.

**Air Freshener/Automotive Uses:** [one 3.8g] {or} [two 1.9g] [scoop(s)] [tablet(s)] [packet(s)] per ½ gallon of water will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets, bathrooms and A/C filters. Effective on smoking and cooking odors (garlic, fish, onions, etc.), automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow to air dry.

## NON-FOOD CONTACT SANITIZER

**Sanitizing Solution - HIV-1 virus (AIDS virus):** Dissolve [1.9g of this product with one gallon of water] {or} [3.8g of this product with two gallons of water] (200 ppm). After cleaning floors, walls and woodwork, spray or swab so as to contract all surfaces thoroughly for 4 minutes.

## FOOD CONTACT SANITIZER

[Product Name] [Sanitizing] [Tablets] [Packets]

[The Multi-Purpose Sanitizer]

[FOR SANITIZING FOOD CONTACT SURFACES]

[The No Rinse Food Contact Surface Sanitizer Spray]

[Used as directed, each 0.48g [tablet] [scoop] [packet] produces one quart of No Rinse Food Contact Surface Sanitizer Spray Solution.]

[Used as directed, each 1.9g [tablet] [scoop] [packet] produces one gallon of No Rinse Food Contact Surface Sanitizer Spray Solution.]

[Used as directed, each 3.8g [tablet] [scoop] [packet] produces two gallons of No Rinse Food Contact Surface Sanitizer Spray Solution.]

[Used as directed, each 5.7g [tablet] [scoop] [packet] produces three gallons of No Rinse Food Contact Surface Sanitizer Spray Solution.]

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

See [left] [right] [side] [back] panel for additional precautionary statements  
[For Institutional and Commercial use only.]  
[For Industrial Use]

[100, 150, 200, 250 or 300] [Tablets] [Packets] [Scoops]

NET WEIGHT [NET WT.] Net Contents: xx [lbs.] [oz.] [g]

[Batch No. / Lot No. \_\_\_\_\_]

[Distributed by] [Manufactured for]

[Company Information] [Phone Number[s]] [Company Logo] [Company Website]

## DIRECTIONS FOR USE

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

[Used as directed at 200 to 400 ppm concentration, this product fulfills the sanitizing criteria of the US PUBLIC HEALTH SERVICE in waters up to 500 ppm of hardness calculated as  $\text{CaCO}_3$ , when tested by the AOAC Germicidal and Detergent Sanitizers Official Method by killing 99.999% of the following pathogenic organisms in 60 seconds: **Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) [NRS 123]**, **Escherichia coli [ATCC 11229]**, **Escherichia coli O157:H7 [ATCC 43895]**, **Listeria monocytogenes [ATCC 19117]**, **Methicillin Resistant Staphylococcus aureus (MRSA) [ATCC 33591]**, **Shigella dysenteriae [ATCC 13313]**, **Staphylococcus aureus [ATCC 6538]**, and **Yersinia enterocolitica [ATCC 23715]**

{or}

[Used as directed at 200 to 400 ppm concentration, in waters up to 500 ppm of hardness calculated as  $\text{CaCO}_3$ , this product is effective against the following pathogenic organisms in 60 seconds: **Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) [NRS 123]**, **Escherichia coli [ATCC 11229]**, **Escherichia coli O157:H7 [ATCC 43895]**, **Listeria monocytogenes [ATCC 19117]**, **Methicillin Resistant Staphylococcus aureus (MRSA) [ATCC 33591]**, **Shigella dysenteriae [ATCC 13313]**, **Staphylococcus aureus [ATCC 6538]**, and **Yersinia enterocolitica [ATCC 23715]**

[[Product Name] sanitizing solutions of 200 to 400 ppm concentration may be used on food processing equipment, utensils and other food contact articles and surfaces as specified under 40 CFR 180.940 of the U.S. Environmental Protection Agency.]

{or}

[Used as directed at 300 ppm concentration (one 0.72g [tablet] [scoop] [packet] dissolved in one quart of warm water), in waters up to 500 ppm of hardness calculated as  $\text{CaCO}_3$ , this product is effective against the following pathogenic organisms in 60 seconds: **Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) [NRS 123]**, **Escherichia coli [ATCC 11229]**, **Escherichia coli O157:H7 [ATCC 43895]**, **Listeria monocytogenes [ATCC 19117]**, **Methicillin Resistant Staphylococcus aureus (MRSA) [ATCC 33591]**, **Shigella dysenteriae [ATCC 13313]**, **Staphylococcus aureus [ATCC 6538]**, and **Yersinia enterocolitica [ATCC 23715]**

[[Product Name] sanitizing solutions of 300 ppm concentration may be used on food processing equipment, utensils and other food contact articles and surfaces as specified under 40 CFR 180.940 of the U.S. Environmental Protection Agency.]

Prepare sanitizing solutions with warm water. Allow several minutes for tablets to thoroughly dissolve before using.

**FOR SANITIZING DISHES, GLASSES, AND UTENSILS IN RESTAURANTS, TAVERNS, AND OTHER PUBLIC EATING PLACES.**

1. Scrape and prewash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner in first sink compartment.
3. Rinse with clean water in second sink compartment.
4. Sanitize in a solution of 1 to 2 [(1.9g)] [tablet(s)] [scoop(s)] [packet(s)] per 1 gallon of water (200 to 400 ppm) in third sink compartment. Immerse all utensils for at least one minute or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drainboard to air dry.
6. A fresh sanitizing solution must be prepared at least daily or more often if the solution becomes diluted or soiled.

**DIRECTIONS FOR SPRAYING FOR SANITIZING FOOD PROCESSING EQUIPMENT, DAIRY EQUIPMENT, SINKS, COUNTERTOPS, TABLES, REFRIGERATED STORAGE AND DISPLAY EQUIPMENT and other hard nonporous food contact articles and surfaces.**

1. Allow surfaces to come to room temperature prior to treatment of the product.
2. Wash and rinse all articles and surfaces thoroughly.
3. Apply a solution of 200 to 400 ppm concentration by combining 1 or 2 [(1.9g)] [tablet(s)] [scoop(s)] [packet(s)] per gallon of warm water, allowing several minutes for tablets to dissolve completely before using. Spray with hand trigger sprayer or wipe on and allow surface to remain wet for at least one minute followed by adequate draining and air drying. Do not rinse or wipe.

**FOR CLEANING AND SANITIZING SOFT SERVE - FROZEN DESSERT MACHINES AND EQUIPMENT**

**CLEANING INSTRUCTIONS**

1. Drain all product from machine.
2. Allow surfaces to come to room temperature prior to treatment of the product.
3. Rinse machine thoroughly by adding 2 gallons of water and operating for 2 minutes, then drain all rinse water from machine.
4. Wash machine thoroughly by adding 2 gallons of a suitable detergent solution and operating for 5 minutes, then drain detergent solution.
5. Rinse machine again by adding 2 gallons of water and operating for 2 minutes, then drain all rinse water from machine.

## SANITIZING INSTRUCTIONS

6. Dissolve 2 to 4 [(1.9g)] [tablet(s)] [scoop(s)] [packet(s)] in 2 gallons of warm water to prepare 200 to 400 ppm sanitizing solution - allow several minutes for tablets to dissolve completely before using. Add this sanitizing solution to machine and operate for 5 minutes, then drain sanitizing solution from machine. Allow 5 minutes for machine to dry.
7. Machine is now ready for refill.

## **SANITIZING OF [REFRIGERATED] [FOOD PROCESSING EQUIPMENT] [ICE MACHINES] AND OTHER HARD NON-POROUS [INANIMATE] [ENVIRONMENTAL] SURFACES IN FOOD CONTACT LOCATIONS, DAIRIES, RESTAURANTS AND BARS DIRECTIONS:**

For sanitizing food processing equipment, dairy equipment, refrigerated storage and display equipment and other hard, non-porous [inanimate] [environmental] surfaces. [Equipment and utensils] {or} [Food contact surfaces] must be thoroughly pre-flushed or pre-scraped and, when necessary, presoaked to remove gross food particles.

1. Turn off refrigeration. (Note: Use this direction only if applicable.)
2. Allow surfaces to come to room temperature prior to treatment of the product.
3. Unit must be washed with a compatible detergent and rinsed with potable water before sanitizing. (Note: Use this direction only if applicable.)
4. Wash and rinse all surfaces thoroughly.
5. Dissolve 2 to 4 [(1.9g)] [tablet(s)] [scoop(s)] [packet(s)] in 2 gallons of warm water to prepare 200 to 400 ppm sanitizing solution - allow several minutes for tablets to dissolve completely before using. Apply this sanitizing solution by mechanical spray device, trigger spray device, direct pouring or by recirculating through the system.
6. Allow surface to remain wet for at least one minute [followed by complete draining].
7. Allow surfaces to air dry.
8. Do not rinse.
9. Fresh solution must be used for each cleaning.
10. Return machine to service.

## **FOOD CONTACT SURFACE SANITIZING DIRECTIONS:**

Before use as a sanitizer in public eating places, federally inspected meat and poultry plants and dairies, food products and packaging materials must be removed from the room or carefully protected. Prior to application, remove gross food particles and soil by a pre-flush or pre-scrape and when necessary, 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 [(1.9g)] [tablet] [scoop] [packet] per gallon of water (200 ppm) as is to sanitize hard, non-porous surfaces with a brush, cloth, mop, sponge,

auto scrubber, or mechanical spray device. For spray applications, spray 6-8 inches from surface. Do not breathe Spray. Rub with brush, cloth or sponge. Allow surface to remain wet for at least 1 minute. Let surfaces drain and then air dry. Do not rinse. Change cloth, sponge, or towels frequently to avoid redeposition of soil. A fresh solution must be prepared at least daily or more often is use solution becomes visibly soiled. The used sanitizing solution must not be reused for sanitizing, but can be reused for other purposes such as cleaning.

#### **BEVERAGE DISPENSING EQUIPMENT SANITIZER DIRECTIONS:**

For sanitizing of bottling or pre-mix dispensing equipment, after cleaning thoroughly rinse equipment with a potable water rinse. Fill equipment with a solution of 1 [one] [1.9g] [tablet] [scoop] [packet] of this product per gallon of water [(or equivalent use dilution)] [(200 ppm active)]. Allow solution to remain in equipment for at least 60 seconds, or until operations resume at which time the sanitizing solution should be drained from the system. To insure the removal of flavors, it is suggested that during changeover between products the system should be cleaned, rinsed and flushed with the sanitizing solution for at least 1 minute. Drain thoroughly and allow to air dry before reuse. No potable water rinse is allowed.

#### **SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS:**

Recommended for use in sanitizing bottles or cans in the final rinse application. The product is to be proportioned into the final rinse water line of the container washer or rinser. Prepare a solution of 1 [one] [1.9g] [tablet] [scoop] [packet] of this product per gallon of water [(or equivalent use dilution)] [(200 ppm active)] for the exterior application for the filler and closing machine. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse. No potable water rinse is allowed.

#### **STORAGE TANK SANITIZER DIRECTIONS:**

Recommended for sanitizing beer fermentation and holding tanks, beverage processing, storage and holding tanks, citrus and food processing storage and holding tanks. Remove gross filth and soil by preflush or pre-scrape and when necessary presoak. Then wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a solution of 1 [one] [1.9g] [tablet] [scoop] [packet] of this product per gallon of water [(or equivalent use dilution)] [(200 ppm active)] for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse. No potable water rinse is allowed.

For mechanical operations or automated systems, the used sanitizing solution may not be used for sanitizing, but may be reused for other purposes such as cleaning.

## **WATER COOLER, WATER HOLDING TANKS AND PRESSURE TANKS:**

Sanitization should occur after initial installation, after the system is serviced and periodically during its use.

1. Shut off incoming water line.
2. Units/tanks must be washed with a compatible detergent and rinsed with potable water before sanitizing.
3. Prepare a solution of 1 [one] [1.9g] [tablet] [scoop] [packet] of sanitizer per gallons of water (200 ppm active quaternary).
4. Apply or circulate (if possible) to wet all surfaces and allow a minimum contact of 60 seconds.
5. Drain the unit.
6. Return to service by opening incoming water lines

## **BULK TANK SANITIZING:**

1. The pick-up tank truck driver [Milk Man] should rinse out the [farm's] bulk tank with tepid water after finishing pumping the milk into the milk truck.
2. Turn the compressor off.
3. Allow surfaces to come to room temperature prior to treatment of the product.
4. Remove all detachable equipment to gain easy access to the tank.
5. Thoroughly pre-clean all surfaces with compatible cleaner.
6. After cleaning, make certain to rinse thoroughly with potable water and allow to drain.
7. Use a properly approved acid rinse, following the directions by the manufacturer, to prevent milkstone buildup and water spotting.
8. Reassemble and thoroughly rinse all surfaces with potable water and allow equipment to drain.
9. Sanitize equipment using 1 [one] [1.9g] [tablet] [scoop] [packet] of this product per gallon of water [(or equivalent use dilution)] [(200 ppm active)] and apply to all surfaces with a cloth, brush or mechanical spray device. For spray applications, use a coarse spray, pump or trigger sprayer. Spray 6 to 8 inches from surface. Do not breathe spray. Rub thoroughly with brush, sponge, or cloth.
10. Surfaces should remain wet for at least 1 minute (followed by adequate draining) (and drain the used solution from the equipment) (and air-drying).
11. Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For mechanical applications use solution may not be reused for sanitizing applications.
12. No potable water rinse is allowed after application of the sanitizing solution (Do not rinse).

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in areas inaccessible to persons unfamiliar with its 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:** Nonrefillable container. Do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration.

### **NON-WARRANTY**

All data, statements, and recommendations contained herein are based on the best available information and are believed to be reliable. However, to the extent allowable by law, no warranty either expressed or implied is made concerning the application of this product since the customer's use of this product cannot be controlled.