



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

10324-232

Date of Issuance:

9/9/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Maguard 5322N

Name and Address of Registrant (include ZIP Code):

Ryan J. Connair  
Registration Specialist  
Mason Chemical Company  
2744 E. Kemper Rd.  
Cincinnati, OH 45241

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Zeno Bain, Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Date:

9/9/19

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Hydrogen Peroxide GDCI-000595-1127
  - b. Peracetic acid GDCI-063201-1125

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 10324-232.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/15/2019

If you have any questions, please contact Jake McFarley, by phone at (703) 347-0123, or via email at [McFarley.Jake@epa.gov](mailto:McFarley.Jake@epa.gov).

Enclosure: Final Master Label

# MASON CHEMICAL COMPANY

2744 E. Kemper Road | Cincinnati, OH 45241 | 513-326-0600 or 800-70-PILOT

EPA Reg. No. 10324-EGE

EPA Est. No.

# MAGUARD<sup>®</sup> 5322N

(Note to Reviewer: Marketing claims may be used on the front panel.)

Cleaner • Disinfectant • {Food Contact} Sanitizer • Deodorizer

### ACTIVE INGREDIENTS:

Peracetic acid .....5.30%

Hydrogen peroxide .....22.50%

OTHER INGREDIENTS: .....72.20%

TOTAL:.....100.00%

**ACCEPTED**

Sep 09, 2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 10324-232

**KEEP OUT OF REACH OF CHILDREN**

**DANGER {PELIGRO}**

{See {left} {back} {side} {right} {insert} {panel} {of label}} {below} for {additional} precautionary statements.

### FIRST AID

In case of emergency, call a poison control center or doctor immediately 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 OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes.

**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.

**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.

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

{For {chemical} {and} {or} {medical} {and} {or} {environmental}} emergencies, call {insert name and/or number of emergency contact} {hours of operation} {24 hours a day} {7 days a week}.



(Note to Reviewer: This referral statement may be organized in any order to be grammatically correct.)

{{Consult} {See} {additional} {sheet} {insert} {inside} {outer container} {product information} {bulletin} {for} {other} {directions for use} {and} {information} {claims} {organisms} {applications}.}

Net Contents:

{{Batch} {Lot}} No {Manufacturing Date}:  
{Product of USA} {Made in the USA}

# MAGUARD® 1510

## ORGANISM LIST

(Note to Reviewer: The list of organisms can be formatted into paragraph form using a comma to separate organisms.)

**FOOD CONTACT SURFACE SANITIZING PERFORMANCE:** This product is an effective food contact sanitizer in 1 minute at 1.7 oz. per 5 gal. of 200 ppm hard water {(149 ppm active PAA)} on hard, non-porous surfaces:

*Escherichia coli*  
*Salmonella typhimurium*  
*Staphylococcus aureus*

## TABLE OF CONTENTS

(Note to Reviewer: The Table of Contents will not be on any label. This is for our customers' reference only.)

ORGANISM LIST .....	2
MARKETING CLAIMS .....	3
DIRECTIONS FOR USE .....	4
SANITIZATION.....	4
DISINFECTION OF HARD, NON-POROUS SURFACES OF ANIMAL AND POULTRY PREMISES, TRUCKS, COOPS, AND CRATES .....	5
CONTROL OF SLIME FORMING BACTERIA IN RECIRCULATION AND COOLING WATER SYSTEMS {(COOLING TOWERS, EVAPORATIVE CONDENSERS, PASTEURIZERS, AND AIR WASHERS)} .....	6
REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF), NANO-FILTRATION (NF) AND OTHER MEMBRANE CLEANING/SANITIZING.....	6
FRUIT AND VEGETABLE WATER TREATMENT .....	7
CLEANING .....	7
ALTERNATE CONTAINER/DELIVERY SYSTEMS.....	7
STORAGE AND DISPOSAL .....	8
PRECAUTIONARY STATEMENTS .....	9
{SPANISH ADVISORY STATEMENTS}.....	9

## MARKETING CLAIMS

**(Note to Reviewer:** Marketing text is considered optional. Commas and the words “and” “or” can be added to phrases to make text grammatically correct.)

For *[[institutional] {and} {industrial}]* sanitizing of previously cleaned non-porous food contact surfaces in:

- Dairies, wineries, breweries and beverage plants
- Meat and poultry processing / packaging plants
- Milk and dairy products *[[processing] {and} {packing}]* plants
- Seafood and produce *[[processing] {and} {packing}]* plants
- Food *[[processing] {and} {packing}]* plants
- Egg *[[processing] {and} {packing}]* equipment surfaces
- Eating establishments

For *[[institutional] {and} {industrial}]* sanitizing of previously cleaned hard, non-porous food contact surfaces such as:

- Eating, drinking, and food preparation utensils
- Countertops and food preparation surfaces
- Tableware
- Plastic, glass and metal bottles (rinse)
- Schools
- Industrial facilities
- Office buildings
- Veterinary Clinics

For use in circulation cleaning and *[[institutional] {and} {industrial}]* sanitizing of previously cleaned hard, non-porous food contact surfaces and equipment such as food preparation surfaces, pipelines, tanks, vats, fillers, evaporators, pasteurizers, and aseptic equipment in:

- Dairies, wineries, breweries and beverage plants
- Meat and poultry processing / packaging plants
- Milk and dairy products *[[processing] {and} {packing}]* plants
- Seafood and produce *[[processing] {and} {packing}]* plants
- Food *[[processing] {and} {packing}]* plants
- Egg *[[processing] {and} {packing}]* equipment surfaces
- Eating establishments

This product is effective as a sanitizer when solution is prepared in water of up to 200 ppm hardness as CaCO<sub>3</sub>. This product has demonstrated greater than 99.999% reduction of organisms after the 60 seconds exposure period in the Germicidal and Detergent Sanitizing Action of Disinfectants study.

**(Note to Reviewer:** The following marketing claims may be used with the prefix “This product *{is}*”.)

- Can be used for reducing pathogenic foodborne bacteria in processing waters for fruits and vegetables.
- Can be used with Biofoam foaming agents. For food-contact applications the foaming agent must be used in compliance with the applicable regulations under the Federal Food, Drug, and Cosmetic Act.
- Can be used with Bioclean non-foaming agent, as an antimicrobial container rinse and for hard, nonporous surface sanitization and disinfection.
- For use as an antimicrobial container rinse to control beverage spoilage microorganisms.
- For use as an antimicrobial rinse to control beverage spoilage microorganisms.
- For use as a coarse spray for surfaces to be sanitized.
- For use as a control in recirculating cooling water and evaporative coolers, reverse osmosis, nano- and ultra-filtration, and agricultural waters.
- Is for disinfection of animal and poultry premises, trucks, coops, and crates
- Is for sanitization of shell eggs.
- Is for sanitizing surfaces such as packinghouse conveyers and harvesting equipment and containers.
- Is for use as a coarse spray for surfaces to be sanitized.
- Is for use as a dip or spray wash, or fog to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest and fresh cut, fruits and vegetables.
- Is for use in the disinfection of hard surfaces in general commercial and medical environments and as an antimicrobial rinse of precleaned or new returnable or non-returnable containers.
- Is for use in commercial and *[[institutional] {and} {industrial}]* laundry operations for disinfection and sanitization.
- Is for use in process water that contacts raw, post-harvest, fresh-cut and processed fruits and vegetables.
- May be used for the non-pesticidal purpose of cleaning room surfaces by fogging.

## PACKAGING CLAIMS

- Concentrate{d}.
- Convenient trigger spray. (**Note to Reviewer:** *To be used on applicable container.*)
- {Dilution System trade name}
- Easy to use.
- Economy size. (**Note to Reviewer:** *To be used on applicable container.*)
- Fewer products - no need for separate deodorizer.
- Is for use in [{automated dilution systems} {automated} {dilution systems} {Dilution System trade name}].
- Makes (insert value) [{gal.} {quarts} {containers}]
- Squeeze {measure} and pour
- This [{container} {bottle}] is made of {at least} (x) % post-consumer recycled plastic.

**(Note to Reviewer (General Considerations):** *Numbered instructions will be used if label space permits, otherwise they may appear in paragraph format. The list of organisms can be formatted into paragraph form using a comma to separate organisms. Unit abbreviations can be spelled out. When choosing optional text, appropriate punctuation can be inserted or deleted. Equivalent use dilution ratios may be substituted within the directions.*)

## DIRECTIONS FOR USE

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

**{Note: May cause bleaching of treated surfaces.}**

**{Note: Before using this product to sanitize metal surfaces, it is recommended that the diluted solution be tested on a small area to determine compatibility.}**

{Please read entire label and use strictly in accordance with precautionary statements and directions.}

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to clean or decontaminate medical devices prior to sterilization or high-level disinfection.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State, consult the agency in your State responsible for pesticide regulation.

**(Note to Reviewer:** *Appropriate dilution rates may be substituted as long as they are equivalent dilution rates.*)

**{DILUTION TABLE: (Note to Reviewer: This DILUTION TABLE is optional.)}**

Use	Dilution	Contact Time
For Disinfectant claims	2.5 oz./5 gal. water	10 minutes
For Food Contact Surface Sanitizing claims	1.7 oz./5 gal. water	1 minute

## SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be reused for sanitizing but may be reused for other purposes such as cleaning. FOR MANUAL OPERATIONS fresh sanitizing solutions must be prepared daily or more often if the solution becomes diluted or soiled.

### Sanitizing Hard, Non-Porous Food Contact Surfaces

{An effective sanitizer against *Staphylococcus aureus*, *Escherichia coli*, and *Salmonella typhimurium*.}

Clean equipment immediately after use:

1. Remove gross particulate matter with a warm water flush.
2. Wash equipment with detergent or cleaning solution.
3. Rinse equipment with potable water. Prepare use solution by adding 1.7 - 3.0 oz. of this product per 5 gal. water. This provides 149 - 438 ppm peroxyacetic acid and 598 - 1,054 ppm hydrogen peroxide. Fill closed systems with diluted sanitizer solution and allow a contact time of 1 minute.
4. For open or not completely closed systems, use a [{coarse spray} {mop/wipe} {or} {flood technique}] to apply the solution to the surface and allow a contact time of 1 minute.
5. Allow surfaces to drain thoroughly before resuming operation. Do not rinse.



### Eating Establishment Sanitizing

An effective sanitizer against *Staphylococcus aureus*, *Escherichia coli*, and *Salmonella Typhimurium*.

1. Scrape/prewash plates, utensils, cups, glasses, etc. whenever possible.
2. Wash all items with a detergent.
3. Rinse thoroughly with potable water
4. Prepare use solution by adding 1.7 - 3.0 oz. of this product per 5 gal. water. This provides 149 - 438 ppm peroxyacetic acid and 598 - 1,054 ppm hydrogen peroxide. Immerse all items for at least 1 minute.
5. Place all sanitized items on rack or drain board to drain adequately. Air dry if items will not be reused immediately.

### Sanitizing Tableware

For sanitizing tableware in low to ambient temperature ware washing machines, inject a use solution of 1.7 oz. of this product per 5 gal. of water {with a water hardness up to 200 ppm} into the final rinse water, allowing a contact time of 1 minute. Allow treated surfaces to air dry.

### Sanitization of Casing or Shell

1. Prepare a use solution by adding 1.7 - 2.0 oz. of this product per 5 gal. of water {with a water hardness up to 200 ppm}. This provides 149 - 175 ppm peroxyacetic acid and 598 - 703 ppm hydrogen peroxide. The solution must be equal to or warmer than the eggs, but must not exceed 130° F. Eggs that have been sanitized with this product may be broken for use in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. The sanitizing solution must not be reused for sanitizing eggs.
2. Apply use solution as eggs are gathered or prior to setting. Apply as a coarse spray} or flood so as to lightly wet all egg shell surfaces. Allow contact time of 1 minute.
3. Allow to drain dry.

### Sanitization of Conveyors, Peelers, Slicers and Saws for Meat, Poultry, Seafood, Fruits and Vegetables

An effective sanitizer against *Staphylococcus aureus*, *Escherichia coli*, and *Salmonella Typhimurium*.

For use in the static or continuous washing, rinsing and sanitizing of conveyor equipment, peelers, collators, slicers, saws, etc.

1. Remove all products from equipment if the sanitizer would directly contact the items during treatment.
2. Prepare use solution by adding 1.7 - 3.0 oz. of this product per 5 gal. of water {with a water hardness up to 200 ppm}.
3. Apply sanitizer solution to the return portion of the conveyor or to the equipment by using a coarse spray or other means of wetting the surfaces. Allow contact time of 1 minute. Control the volume of solutions so as to permit maximum drainage and to prevent puddles. The conveyor may still be damp when food contact occurs.
4. Allow equipment to drain adequately before reusing. A dry surface is not required. No rinse is needed.

### Antimicrobial Rinse of Pre-Cleaned or New Returnable or Non-Returnable Containers

To reduce the number of nonpathogenic beverage spoilage organisms such as *Aspergillus versicolor*, *Byssochlamys fulva*, *Pediococcus damnosus*, *Lactobacillus buchneri*, and *Saccharomyces cerevisiae*.

1. Prepare use solution by adding 7.0 - 30 oz. of this product per 5 gal. of water with a water hardness up to 200 ppm. This will provide 614 - 2630 ppm of peroxyacetic acid and 2614 - 11,200 ppm hydrogen peroxide.
2. Apply solution, allowing a contact time of 1 minute.
3. Allow containers to drain thoroughly and then rinse with sterile or potable water.

### Entryway Sanitizing Systems (Not for Use in CA)

To reduce cross-contamination from treated area to treated area, [{apply} {spray}] a sanitizing foam to the entryway. The foam must cover the entire path of the doorway. For effective coverage of footwear and forklift tires, etc., apply a foam layer 0.5 - 2 inches in depth. Set the system to deliver 1 - 6.1 oz. (82 - 500 ppm active PAA) of this product and 3 - 12 oz. of Biofoam {(foam additive)} per 6 gal. of water. Adjust the PAA concentration by testing the collapsed foam solution using a peroxyacetic acid test kit.

## DISINFECTION OF HARD, NON-POROUS SURFACES OF ANIMAL AND POULTRY PREMISES, TRUCKS, COOPS, AND CRATES

{This product is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters.} {When used as directed, this product is specifically designed to disinfect, deodorize, and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages and feeding equipment.} {{In addition,} {this product will deodorize those areas which are generally hard to keep smelling fresh, such as garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.}}

### Disinfection of Poultry Premises

Pre-clean visibly soiled areas. Prepare a fresh solution for each use. Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a use solution of 2.5 - 8.0 oz. of this product per 5 gal. of water {(0.38 - 1.25% v/v)} for a period of 10 minutes. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waters with a detergent and rinse with potable water before reuse. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

## **Disinfection and Deodorizing of Animal Housing Facilities {(Barns, Kennels, Hutches, Etc.)}**

Remove animals and feed from premises, vehicles, and enclosures. Remove litter and waste matter from floors, walls, and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks, and other feeding and watering equipment. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces by applying a use solution of 2.5 oz. of this product per 5 gal. of water {(0.38%)} with a [{mop} {brush} {or} {coarse spray}]. Wet all surfaces and allow to remain wet for 10 minutes. 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. Ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

## **CONTROL OF SLIME FORMING BACTERIA IN RECIRCULATION AND COOLING WATER SYSTEMS {(COOLING TOWERS, EVAPORATIVE CONDENSERS, PASTEURIZERS, AND AIR WASHERS)}**

Severely fouled systems must be cleaned before adding this product. This product must be added in the system directly and not mixed with any other chemicals or additives. Discontinue the use of chlorine or bromine products prior to using this product. Contamination with other chemicals could result in product decomposition. Add this product at a point in the system where uniform mixing and even distribution will occur.

For slug treatment, add 20 oz. of this product per 1000 gal. of process water. Repeat as necessary until microbiological control is evident. Thereafter, to maintain control, use 4.0 - 17.5 oz. of this product per 1000 gal. of process water (2 - 9 ppm active peroxyacetic acid) as a continuous or intermittent slug treatment. Continuous dosing methods usually require 4.0 - 10.2 oz. per 1000 gal of process water (2 - 5 ppm active peroxyacetic acid) to achieve adequate control.

### **Cleaning**

To remove sessile bacteria from cooling systems it is necessary to clean slime and slime-forming bacteria from the surfaces of all areas of water contact. This can be accomplished by treating the recycled water with 102 - 306 oz. of this product per 1000 gal. of water (50-150 ppm active peroxyacetic acid) for 4 - 8 hours during normal tower operating cycles. This procedure can be used for online or offline cleaning. When finished bleed down the system until the PAA level is < 5 - 10 ppm, then normal chlorine or bromine or PAA treatments can begin. This treatment must be done at least once or twice each year depending on exposure conditions.

### **Air Washers**

This product may be used to control bacteria and biofouling in industrial air washing/scrubbing systems. The air washer must have operational and effective mist elimination systems. Prior to use of this product, heavily fouled systems must be pre-cleaned using the appropriate cleaner. Continuous dosing methods will require 2 - 7 ppm of PAA and intermittent dosing methods require 7 - 14 ppm of PAA depending on the type of system and the level of microbiological control desired.

### **Evaporated or Condensed Water**

This product may be used to treat SWEET or COW water (i.e. condensate of whey) collected from evaporated or condensing water systems in food or dairy plants. Typically, the dosing regimen would be using intermittent or continuous methods at 2 - 14 ppm of peroxyacetic acid.

## **REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF), NANO-FILTRATION (NF) AND OTHER MEMBRANE CLEANING/SANITIZING**

This product may be used in the sanitization of ultra-filtration (UF), nano-filtration (NF), and reverse osmosis (RO) membranes and other similar type membranes and their associated piping systems. This product may be added continuously in food, beverage, and drinking water systems for RO systems only and in accordance with the instructions below. This product is not for use in kidney dialysis equipment. This product may not totally eliminate all vegetative microorganisms in RO, NF, or UF membranes and their associated piping systems due to their construction or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with membrane manufacturer to confirm compatibility of membranes with various types or concentrations of peracetic acid solutions.

### **Batch Sanitation of NF, UF, and RO Systems**

Isolate incompatible equipment, such as carbon filters and ion exchangers. Clean system with an appropriate cleaner and follow with RO permeate water or potable water. Remove mineral deposits if necessary with an acidic cleaner, and rinse as before. Fill entire system with water and add up to 1% of this product by volume (620 ppm peroxyacetic acid) for heavily fouled systems. The typical sanitizing use solution for this product is 1 - 2 oz. per 5 gal. of water (98-195 ppm peroxyacetic acid).

Recirculate the sanitizing solution through the piping and membrane system at 20°C (68°F) for 10 minutes minimum, or up to 4 hours, depending on the severity of cleaning to be done. Open and close process valves and solenoids to be sure all parts are in contact with the solution. For occasional intermittent feed, do not exceed 98 ppm active peroxyacetic acid, which equals 1 oz. of this product per 5 gal. of feed water. Do not use the intermittent feed method for on-line use for potable water or direct food contact systems. Rinse the system with RO permeate or potable water until residual concentration is below 1 ppm.

### **RO Continuous or Intermittent Addition**

For continuous addition methods for RO systems, use 2 - 5 ppm active peroxyacetic acid (36 - 90 ppm of this product), which equals 1.8 - 4.5 oz. of this product per 430 gal. of process water. For occasional intermittent feed, do not exceed 98 ppm active peroxyacetic acid, which equals 1 oz. of this product per 5 gal. of feed water. Do not use the intermittent feed method for on-line use in potable water or direct food contact systems.



## FRUIT AND VEGETABLE WATER TREATMENT

This product may be used to help control spoilage or decay-causing bacteria and fungi in water or ice that contacts raw, unprocessed fruits and vegetables in commercial operations and packinghouses. For the target commodity, use a *continuous coarse* spray or submerge using a solution containing 4 oz. of this product per 20 gal. of water (100 ppm peroxyacetic acid). Adjust dose as necessary to obtain satisfactory efficacy.

Remove excess water or allow to drain. If using the submersion method, replace with a fresh solution as necessary, or when it becomes visibly soiled. A final potable water rinse is not necessary.

## CLEANING

All surfaces must be disinfected prior to fogging.

### Fogging in Filling, Packaging, and Dispensing Rooms or Areas (Not for use in CA)

This product can be applied by fogging to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the post-harvest process. Ensure room is properly ventilated. Vacate all personnel from room during fogging and for a minimum of 2 hours after fogging. Ensure there is no strong odor characteristic of acetic acid before having personnel return to work area. Do not enter room until hydrogen peroxide concentrations are correctly tested and are below 0.5 ppm on a time weighted average. Fog area using 1 quart of a 0.13% solution of this product (1 oz. of this product per 6 gal. of water) per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly before operations are resumed.

## ALTERNATE CONTAINER/DELIVERY SYSTEMS

### {AUTOMATED DILUTION SYSTEM} {(DILUTION SYSTEMS TRADE NAME)} {CLOSED LOOP DISPENSING} {BAG-IN-BOX} INSTRUCTIONS:

Remove *cap* *spray nozzle* from empty container. Fill empty container with a freshly prepared use solution. Replace *cap* *spray nozzle*. Place correct use-dilution label on newly filled container.

(OR)

{Remove cap and} Insert *cartridge* *container* into dispenser. {See dispenser instructions for proper placement of *cartridge* *container*.} *Press button* *or* *turn knob* to dispense (*Insert appropriate dilution from dilution list*) of this product into a *bucket*, *bottle*, *scrubber* or *other* *container*.

(OR)

Turn off water to connect *unit* *cartridge*. Attach water source. Rotate control knob to fill a *bottle* *or* *bucket* *other container*. Squeeze handle to dispense (*Insert appropriate dilution from dilution list*). {See device instruction manual for more information.}

(OR)

{Remove *insert color* locking rings.} Push *the* control knob *sideways* *down* until *bottle* *bucket* icon is completely depressed against the dispensing head {for *low* *high* flow rate applications such as filling *a coarse* trigger spray bottle *mop buckets*.} {Use hose with quick-connect, supplying potable water - Connect to dispensing head. Squeeze to dispense. Slide holding lock to dispense into a bucket and free hands.}

(OR)

Attach sprayer unit to hose, ensuring the hose faucet is turned off. Secure tightly, Check that the sprayer is in the off position. Turn on water. Turn sprayer to on position to dispense (*insert appropriate dilution from dilution list*). Spray evenly over surface. When finished turn sprayer to off position and then turn water off. Separate mixing of the concentrate or other application equipment is not required.

(OR)

Ensure water source is off. Attach water hose to *dispensing unit* *sprayer unit* and attach to container. {See dispenser instructions for proper assembly}. Secure all connections. Ensure that the *lever* *knob* *dial* on the *dispenser* *sprayer* is in the *off* *closed* position. Turn on the water. Turn the *lever* *knob* *dial* on the *dispenser* *sprayer* to the *on* *open* position to *dispense* solution into a *bucket*, *bottle*, or *other* *container* *spray onto surfaces*. When finished, turn the *lever* *knob* *dial* on the *dispenser* *sprayer* to the *off* *closed* position and turn the water off.

(OR)

{Twist a *insert package name* Cap onto *insert product name* spout.} Fit 1/4" tubing to the automatic dilution system and attach to *insert package name* Cap. {Insert an in-line check valve in the run of the tubing between the automatic dilution system and the *insert package name* Cap.} Push tubing over the barbs of the *insert packing name* Cap. Secure tubing connections with plastic zip ties. *Place* *Hang* *insert package name* *upside down* *on its side*. See automatic dilution system instructions for detailed directions.

(OR)

This package is designed to be used with dilution control systems only. Open package and connect to {{hose}} {{system}} to dispense according to directions on the box.

**{COARSE} TRIGGER SPRAYERS:** Fill bottle from dispenser. {Apply to surfaces according to directions above.}

#### SPRAY USE INSTRUCTIONS:

##### How to Assemble Extendable Trigger

1. Remove {{cap}} {{sprayer}} from bottle.
2. Insert end of tube into bottle until new cap meets bottle.
3. Twist cap onto bottle until secure.

##### How to Spray

1. Adjust nozzle to ON (**Note to Reviewer:** *There will be an ON symbol here*) position as indicated on nozzle.
2. {{To prime sprayer, direct nozzle toward surface to be treated and squeeze trigger several times until liquid is seen through the length of the tube. **Note:** Keeping sprayer head below the level of liquid in bottle will make priming easier.}} {{When priming, hold sprayer level to the ground. If held at an angle, sprayer will not prime.}}

##### After Use

1. Turn nozzle to OFF (**Note to Reviewer:** *There will be an OFF symbol here*) position.

*(Spray Cap container language)*

**Shake Well.** Remove sticker. Open flip cap. Firmly insert red hose tip.

**MOP BUCKETS:** Fill bucket from dispenser. Set up “Wet Floor” signs. Mop floor surfaces as specified in directions above.

*(Note to Reviewer: For pre-measured tear open packet only)*

**PACKETS:** {{{Simply}} {{Tear}} open and}} pour contents into X gal. of water. {{Keep packets in box until ready to use.}}

#### STOCK SOLUTIONS INSTRUCTIONS:

##### {For Spray Bottles:}

1. Fill stock {{solution bottle}} {{mixing container}} {{insert bottle number}} to indicated line with (X) {{oz.}} {{gal.}} of water.
2. Pour contents of (X) pack{s} {{of this product}} {{insert packet number}} into stock {{solution bottle}} {{mixing container}}.
3. Fill {{quart}} {{{hand pump}} {{coarse}} trigger spray bottle {{insert bottle number}} with (X) oz. to water line.
4. Add (X) pump stroke {{(X) oz.}} from stock {{solution bottle}} mixing container}} to create a (XXX) ppm solution.

Note: Empty and rinse bottles before refilling.

##### For {{{Mop} Buckets} {or} {{Soaking} {Wiping} {Cloth} Containers}}:

1. Fill {{{mop} bucket {{insert bucket number}} {{container}} to indicated line with {X} {{oz.}} {{gal.}} of water.
2. Pour contents of (X) pack{s} {{of this product}} {{insert packet number}} into stock {{solution bottle}} {{mixing container}}.
3. Add (X) pump stroke {{(X) oz.}} from stock {{solution bottle}} {{mixing container}}.
4. {{Soak clean {wiping} cloths between use.}}
5. Prepare a fresh solution daily or when visibly dirty {{or if falls below XXX ppm active peracetic acid.}}

## STORAGE AND DISPOSAL

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

#### Pesticide Storage

**NEVER RETURN THIS PRODUCT TO THE ORIGINAL CONTAINER AFTER IT HAS BEEN REMOVED.** Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, douse container with cool water and dilute with large volumes of water.

Avoid damage to containers. Keep closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F. Do not store on wooden pallets.

#### Procedure for Leak or Spill

Stop leaks if this can be done without risk. Shut off ignition sources; no flames, smoking flares, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material should not enter confined spaces.

## Pesticide Disposal

If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state and Federal environmental laws, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal.

Product to be discarded should be disposed of as hazardous waste after contacting the appropriate local, state, or Federal agency to determine proper procedures.

## Container Handling

*Non-refillable containers greater than or equal to 5 gal.:*

Nonrefillable container. Do not reuse or refill this container. Offer for recycling. If available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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 it back and forth several times. Stand the container on its other end and tip back and forth several times. Empty rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Empty drums are not returnable unless special arrangements have been made. Dispose of drums in accordance with local, state, and Federal regulations.

---

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear a NIOSH approved respirator with an organic vapor (OV) cartridge with any combination N, R, or P filter with NIOSH approval number prefix TC – 84A; or a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH approval number prefix TC-23C; or a NIOSH approved gas mask with an organic vapor canister with NIOSH approval number prefix TC – 14G. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical resistant footwear, rubber gloves, and chemical goggles. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Mix only with water. This product is not combustible, but decomposition occurs at temperatures exceeding 156°F, releasing oxygen. The oxygen released could initiate or promote combustion of other materials.



### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, mammals, fish and aquatic life. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment facility authority. For guidance contact your State Water Board or Regional Office of the EPA.

---

## {SPANISH ADVISORY STATEMENTS}

*(Note to Reviewer: This statement is optional except when used on labels with agricultural uses.)*

{SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A ALGUIEN PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.  
IF YOU DO NOT UNDERSTAND THE LABEL, FIND SOMEONE TO EXPLAIN IT TO YOU IN DETAIL.}