

74986-4

01/24/2005

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

74986-4

JAN 24 2005

Term of Issuance:

Time Limited Registration
Expires January 24, 2006

Name of Pesticide Product:

Selective Micro Clean Alpha

NOTICE OF PESTICIDE:

Reregistration
 Registration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Selective Micro Technologies, LLC
66 Cherry Hill Drive, Suite 230
Beverly, MA 01915

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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/reregistered 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label change:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 74986-4."
 - b. Provide a food-use tolerance exemption for the inert ingredient.
 - c. Revise the Ingredient Statement as follows:

Active Ingredient:	
Sodium Chlorite	30.5%
Other Ingredients	69.5%
Total	100.0%

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Signature of Approving Official:

Date:

Emily H. Mitchell

1-24-05

Emily H. Mitchell, PM-32, Antimicrobials Division (7510C)

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d. Submit acute toxicity data for the activated solution.

Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.



Selective Micro Technologies

SELECTIVE MICRO® CLEAN-ALPHA
DISINFECTANT/SANITIZER/TUBERCULOCIDE/VIRUCIDE
FUNGICIDE/ALGAECIDE/SLIMICIDE/DEODORIZER

PRODUCES TWO LITERS OF 500 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED

When used as directed, this chlorine dioxide-generating product is proven effective as: a disinfectant against Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella choleraesuis, methicillin-resistant S. aureus, vancomycin-resistant Enterococcus faecalis, Mycobacterium bovis and Trichophyton mentagrophytes; a virucide against Corona virus; a sanitizer against E coli (and E coli O157:H7), S. aureus, Salmonella typhimurium (MDRS), and Klebsiella pneumonia; a fungicide against Penicillium digitatum, Botrytis Sp, and Fusarium solani; and an algaecide (Phormidium boneri).

KEEP OUT OF REACH OF CHILDREN

DANGER

(See back panel for other cautions)

Active Ingredient:

Sodium Chlorite

Inert Ingredients:

Total:

Amount of Chlorine Dioxide generated = 0.04%

FIRST AID

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

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If Swallowed: Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Remove victim 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 treatment advice. Get medical attention.

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

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-X

EPA Establishment No. 071441-OH-004

Sold by Selective Micro Technologies, LLC

66 Cherry Hill Dr., Suite 230, Beverly, MA 01915

Net Weight of contents.....0.44 ounces (12.34 grams)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

DANGER: DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES) WHEN HANDLING DRY INGREDIENTS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING OR USING TOBACCO. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

ACTIVATED SOLUTION: HARMFUL IF SWALLOWED. DO NOT GET IN THE EYES OR ON CLOTHING. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPOR FROM CONTAINER SPOUT. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING

PHYSICAL OR CHEMICAL HAZARDS

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF POUCH. ALWAYS OPEN ACTIVATED POUCH, AND DILUTE ACTIVATED SOLUTION, IN WELL-VENTILATED AREA.

NOTE: For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.

DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING.

- 1. Fill the pouch with tap water (2 liters) to generate the chlorine dioxide solution.
2. WAIT AT LEAST 6 HOURS BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH.
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro® Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on pouch. If solution in pouch will not be used up within 72 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container. Use solution and/or subsequent dilutions within 15 days of activating pouch.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50° C (122° F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED 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. COMPLETELY EMPTY ACTIVATED SOLUTION IN POUCH INTO APPLICATION EQUIPMENT. THEN DISPOSE OF EMPTY POUCH IN A SANITARY LANDFILL OR BY INCINERATION, OR, IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

WARRANTY STATEMENT: The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE

ACCEPTED WITH COMMENTS EPA Letter Dated: JAN 24 2005

74986-X Under the Federal Insecticide, Fungicide, and Rodenticide Act, registered under EPA Reg. No. 74986-X

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MERCHANTABLE. THE COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

When used as directed, this product is an effective sanitizer, disinfectant, virucide, tuberculocide, fungicide, algacide and general-purpose antimicrobial. For all applications, clean surfaces before using product. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer.

SANITIZER FOR HARD, NON-POROUS, FOOD-CONTACT SURFACES. Effective food contact surface sanitizer at 5 ppm against *E. coli* and *E. coli* O157:H7, *Salmonella typhimurium* (MDRS), and *Staphylococcus aureus* with an exposure time of 1 minute. Product may be used on previously cleaned food preparation surfaces; fountain drink and beverage dispensers; glassware, plates and eating utensils; food processing equipment, including beer processing equipment and lines, and food conveyor belts. For a 5 ppm solution, use dilution device or sprayer with a 1:100 dilution (one part solution to 99 parts water). See Technical Bulletin for alternative dilution instructions and application specifics.

SANITIZER FOR HARD, NON-POROUS, NON-FOOD-CONTACT SURFACES. Effective non-food contact surface sanitizer at 20 ppm against against *Staphylococcus aureus* and *Klebsiella pneumonia* with an exposure time of 5 minutes. Product may be used on non-food contact surfaces, including floors, walls, and furnishings. For a 20 ppm solution, use dilution device or sprayer with a 1:25 dilution (one part solution to 24 parts water). See Technical Bulletin for alternative dilution instructions and application specifics.

DISINFECTANT FOR HARD, NON-POROUS SURFACES: Product may be used at 100 ppm with an exposure time of 10 minutes to disinfect hard surfaces in medical or veterinary clinics that may be contaminated with *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, methicillin-resistant *S. aureus*, vancomycin-resistant *Enterococcus faecalis*, *Mycobacterium bovis* (TB) and *Trichophyton mentagrophytes* (athlete's foot). This product may be used to disinfect general environmental surfaces. For a 100 ppm, use a dilution device or sprayer with a 1:5 dilution (one part solution to four parts water). See Technical Bulletin for alternative dilution instructions and application specifics.

DISINFECTANT FOR CLEAN-IN-PLACE APPLICATIONS FOR POTABLE WATER SYSTEMS: Product may be used to disinfect lines (contaminated with *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, methicillin-resistant *S. aureus*, and vancomycin-resistant *Enterococcus faecalis*) used in fountain drink or other beverage preparation, storage, transfer and dispensing. For a 100 ppm solution (10-minute exposure time), use a dilution device with a 1:5 dilution (one part solution to four parts water);

for a 50 ppm solution (20-minute exposure time), use a dilution device with a 1:5 dilution (one part solution to nine parts water). See Technical Bulletin for alternative dilution instructions and application specifics.

ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR POTABLE WATER SYSTEMS: This product will reduce microbial populations in the potable water holding tanks and lines of recreational vehicles (RV) and boats, in marine and RV wastewater tanks and lines; and fountain drink or other beverage preparation, storage, transfer and dispensing lines and equipment. In addition, it will clean, eliminate odors, and remove organic matter. These uses must be followed by a potable water rinse. For 50 ppm, use one activated pouch (2 liters) for every 50 gallons of capacity, rounding to the next higher number of pouches (for example, use two pouches to treat a 100-gallon tank; for two 80-gallon tanks—total capacity of 160 gallons—use four pouches). See Technical Bulletin for preparation directions and other dilution and application specifics.

ANTIMICROBIAL APPLICATIONS FOR NON-POTABLE WATER SYSTEMS AND HORTICULTURAL SETTINGS: This product may be used to reduce microbial populations in non-potable water used with cut flowers to minimize microbial transfer from water to flower, thereby maintaining freshness and extending shelf-life of cut flowers. For a 5 ppm solution, use a dilution device or sprayer with a 1:100 dilution (one part solution to 99 parts water). See Technical Bulletin for detailed directions and dilution and application specifics.

GENERAL DISINFECTANT, SANITIZER, ALGACIDE AND FUNGICIDE FOR HORTICULTURAL AND GREENHOUSE APPLICATIONS: For horticultural applications, this product may be used to disinfect (100 ppm/10 minutes or 50 ppm/20 minutes) and sanitize (20 ppm/5 minutes) hard, non-porous surfaces; to treat, control, and prevent fungi (5 ppm/1 hour) (*Penicillium digitatum*, *Botrytis Sp*, *Fusarium solani* & *oxysporum f. sp. Basillicum* (Fob), and *Pythium irregulare* & *aphanidermatum*), bacteria (*Erwinia chrysanthemi*), algae (*Phormidium boneri*), and attendant slimes, rusts, leaf spot and mildews; and to remove slimes (50 ppm/12 hours-overnight) & inhibit reemergence (0.25 ppm/continuous treatment) in irrigation and other non-potable water systems. For 100 ppm, use a dilution device or sprayer with a 1:5 dilution (one part solution to four parts water); for 50 ppm, use a 1:10 dilution (one part solution to nine parts water); for 20 ppm, use a 1:25 dilution (one part solution to 24 parts water); for 5 ppm, use a 1:100 dilution (one part solution to 99 parts water); for 0.25 ppm, use a 1:2,000 dilution (one part solution to 1,999 parts water). Concentrations and contact times are application-specific; see Technical Bulletin for detailed directions and other dilution and application specifics.

FRUIT AND VEGETABLE WASH TO EXTEND FRESHNESS AND SHELF-LIFE. This product may be used at 5 ppm for 1 minute to reduce spoilage microorganisms on raw agricultural commodities (RACs) in food processing facilities. To achieve a 5 ppm concentration, begin with a 500 ppm solution

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and use a dilution device or sprayer with a 1:100 dilution (one part 500 ppm solution to 99 parts water). Spray or dip RACs, and flush with a potable water rinse or by canning, blanching, or cooking. See Technical Bulletin for detailed directions and other dilution and application specifics.

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EPA Letter Dated:

JAN 24 2005

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amended, for the pesticide,
registered under EPA Reg. No.

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Selective Micro Technologies

ACCEPTED with COMMENTS - EPA Letter Dated:

JAN 24 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this pesticide, registered under EPA Reg. No.

74986-4

SELECTIVE MICRO® CLEAN-ALPHA Technical Bulletin 2004 - 01-Alpha

Disinfectant/Sanitizer/Tuberculocide/Virucide Fungicide/Algaecide/Slimicide/Deodorizer

Activate Selective Micro® Clean-Alpha according to "Directions for Use" on pouch label. One pouch, activated as directed, contains two (2) liters of chlorine dioxide solution at a concentration of 500 ppm. Shake pouch gently before use, and prepare diluted solutions using the table below.

Dilution Instructions For Selective Micro® Clean-Alpha

Table with columns for TO PREPARE A FINAL SOLUTION OF THIS CONCENTRATION, DO ANY ONE OF THE FOLLOWING: (1) Add One (1) Part Activated Solution to This Many Parts Water, (2) Use Contents of an Activated Pouch of with a Dilution Device set at, (3) Add Entire Contents (2 liters) of the Activated Pouch to This Much Water, (4) Add The Indicated Volume of Activated Selective Micro® Clean-Alpha Solution To Each Liter, Gallon, or Quart of Water. Rows include concentrations: 0.25 ppm, 5 ppm, 20 ppm, 50 ppm, 100 ppm.

Check concentration of solution using Selective Micro® Chlorine Dioxide Test Strips. (See box below for instructions if check indicates concentration lower than desired) Record activation date and concentration on stick-on label and affix to storage container. Use solution within 15 days of activation. Storage: Store unused solution according to "Directions for Use" on pouch label. After use, dispose of pouches according to disposal instructions on pouch label.

Selective Micro Technologies believes the information contained on this Instruction Bulletin is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules of insurance requirements.

NO WARRANTY IS MADE, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

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DURING USE (DILUTING, APPLYING, OR WORKING WITH ACTIVATED PRODUCT):

1. Always work in well-ventilated area and avoid inhaling fumes of activated solution.
2. Wear protective gloves if hands will come in contact with activated solution.
3. If applying activated solution with a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
4. Do not use product in a manner inconsistent with the label.

IF TEST STRIPS INDICATE CONCENTRATION (PPM) LOWER THAN DESIRED:

1. Check expiration date on *Test Strips* container. If expired, then recheck using fresh *Test Strip* from a container that has not reached its expiration date.
2. If the original container has not expired OR if the recheck indicates a lower-than-desired concentration, THEN DO ONE OF THE FOLLOWING:
 - 2a. If the application solution was prepared directly to the end-concentration (not diluted from a higher concentration), discard the solution and activate a fresh (unused) *Selective Micro® Clean-Alpha*. Recheck concentration after waiting the prescribed time to activation.

OR

 - 2b. If the application solution was prepared by diluting a solution of higher concentration, add small amounts of the higher-concentration solution to the application solution—about 10% of the volume of the application solution at a time—until the *Selective Micro® Chlorine Dioxide Test Strip* indicates the desired concentration. Stir or mix the solution gently after each addition. Use a fresh (unused) *Test Strip* for each test.

**RECOMMENDED SPECIFICATIONS FOR CONTAINERS
USED WITH *SELECTIVE MICRO* PRODUCTS**

FOR USE IN GENERATING OR STORING ACTIVATED SOLUTIONS

- The container should be—or be comparable to—a UN-approved, liquid-resealable containment incorporating a gasket-sealing surface and locking mechanism.
- Construction should be of dark or opaque/UV-blocking (preferred) oxidation-resistant plastic or glass. Some materials recommended include:
 - High Density Polyethylene (HDPE)
 - Polypropylene (PP)
 - Polyethylene Terephthalate (PET)(PETE)
 - Polyvinyl Chloride (PVC)
 - Polycarbonate (PC)
 - Glass (UV-blocking preferred)
 - Gasket materials; silicone, viton or EPDM

Users without containers comparable to the above may contact Selective Micro Technologies for recommendations or to purchase containers for their applications.

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GENERAL USES

A. SANITIZER

FOR HARD, NON-POROUS FOOD CONTACT SURFACES

As a sanitizer for stainless steel and other hard, non-porous food contact surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Remove all gross food particles and soil prior to sanitizing using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before sanitizing.
4. Prepare a 5 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:100 dilution device (one part activated solution to 99 parts water).
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least one minute. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of pouch according to instructions on pouch label.

FOR HARD, NON-POROUS, NON-FOOD CONTACT SURFACES

As a sanitizer for non-porous, non-food contact surfaces and equipment such as backsplashes, counter tops, stainless steel or hard-surface equipment, tile floors, walls, and ceilings:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to sanitizing.
3. Prepare a 20 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:25 dilution device (one part activated solution to 24 parts water).
4. To apply: spray, mop or sponge the 20 ppm solution onto the surfaces to be sanitized, ensuring the target surfaces remain visibly wet for at least five minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surfaces.
6. Dispose of pouch according to instructions on pouch label.

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B. DISINFECTANT

To disinfect stainless steel and other hard, non-porous surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries and to disinfect walls, floors and ceilings

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Remove all gross food particles and soil prior to disinfecting using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before disinfecting.
4. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:5 dilution device (one part activated solution to four parts water).
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After disinfecting allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
7. Dispose of pouch according to instructions on pouch label.

DISINFECTANT USES IN MEDICAL AND DENTAL OFFICES, LABORATORIES, HOSPITALS, CLINICS, MORGUES AND INSTITUTIONS

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, either into or in contact with the blood stream or normally sterile areas of the body or (2) contact 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 pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

A. To disinfect non-porous, hard surfaces such as stainless steel or hard-surface equipment, tile floors, walls, ceilings, stainless steel cold rooms and walk-in incubators:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:5 dilution device (one part activated solution to four parts water).
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of pouch according to instructions on pouch label.

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B. To disinfect equipment tops, bench tops, biological hoods, incubators, stainless steel equipment and instruments:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:5 dilution device (one part activated solution to four parts water).
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of pouch according to instructions on pouch label.

C. To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns and kennels:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Remove all animals and feed from facility to be disinfected.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other structures occupied or traversed by animals.
4. Empty all troughs, racks and other feeding and watering appliances.
5. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:5 dilution device (one part activated solution to four parts water).

FOR GENERAL APPLICATION WITH SPRAYER:

6. With soap or detergent, thoroughly clean all surfaces and rinse with water.
7. Using a commercial sprayer, saturate all surfaces with the solution maintaining visible wetness for a period of at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
8. After treatment, ventilate buildings, coops or other enclosed spaces before reentering. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.

AS A DISINFECTING SOAK:

6. With soap or detergent, thoroughly clean halters, ropes or other types of equipment used in handling and restraining animals and forks, shovels and scrapers used in removing litter and manure. Rinse with water.
 7. Fill container or vat with 100 ppm solution, and immerse items for a period of at least ten (10) minutes.
 8. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.
9. Dispose of pouch according to instructions on pouch label.

DISINFECTANT FOR BEVERAGE AND WATER SYSTEMS AND LINES

To disinfect lines, holding tanks and other equipment used in fountain drink or other beverage preparation, storage, transfer and dispensing operations or to disinfect the lines

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and storage tanks of potable water storage systems aboard aircraft, boats and RVs (clean-in-place applications):

Prior to disinfecting, clean tanks and flush thoroughly with clean, potable water

FOR A TEN (10) MINUTE OR LONGER DISINFECTION

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:5 dilution device (one part activated solution to four parts water) **OR** add the entire contents of one *Selective Micro® Clean-Alpha* pouch for each 8 liters (2.0 gallons) of water added to the tank.
3. **Fill tank completely with 100 ppm solution.** Run solution through transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least ten (10) minutes.
4. Drain tanks and lines. Rinse with potable water.
5. Dispose of pouch(es) according to instructions on pouch label.

FOR A TWENTY (20) MINUTE OR LONGER DISINFECTION

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Prepare a 50 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:10 dilution device (one part activated solution to nine parts water) **OR** add the entire contents of one *Selective Micro® Clean-Alpha* pouch for each 18 liters (4.75 gallons) of water added to the tank.
3. **Fill tank completely with 50 ppm solution.** Run solution through transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least twenty (20) minutes.
4. Drain tanks and lines. Rinse with potable water.
5. Dispose of pouch(es) according to instructions on pouch label.

CLEANING AND ANTIMICROBIAL APPLICATIONS FOR WATER LINES AND TANKS IN POTABLE WATER SYSTEMS

This product will reduce microbial populations in the potable water holding tanks and lines of recreational vehicles (RV) and boats; in marine and RV wastewater tanks and lines; and fountain drink or other beverage preparation, storage, transfer and dispensing lines and equipment, and in coolers, thermoses, plastic water bottles, and other water-storing and dispensing systems used for picnics, camping, and other recreational activities. In addition, it will clean, eliminate odors, and remove organic matter. These uses must be followed by a potable water rinse.

1. Determine the number of pouches of *Selective Micro® Clean-Alpha* necessary to clean the drinking water system. Use one pouch for every 50 gallons, or fraction thereof, of capacity. *Example:* Two 80-gallon tanks = 160 gallon capacity. Therefore, to clean two 80-gallon tanks requires using four *Selective Micro® Clean-Alpha* pouches.
2. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.

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3. Drain all water tanks completely. Then, refill tanks with water to approximately 10% of their capacity (for example, a 100-gallon tank should be filled with 10 gallons of water.)
4. Add one pouch of *Selective Micro®Clean-Alpha* for every 50 gallons of capacity according to the table below (see instruction 1 above). **Do not add additional water. Do not refill tank**

FOR TANKS OF THIS OVERALL SIZE		USE THIS NUMBER OF ACTIVATED POUCHES	IN THIS MUCH WATER
More than:	Less Than:		
5 gallons	50 gallons	1	20 liters/5 gallons
50 gallons	100 gallons	2	40 liters/10 gallons
100 gallons	150 gallons	3	60 liters/15 gallons
150 gallons	200 gallons	4	80 liters/21 gallons
200 gallons	250 gallons	5	100 liters/26 gallons
250 gallons	300 gallons	6	120 liters/31 gallons
300 gallons	350 gallons	7	140 liters/36 gallons
350 gallons	400 gallons	8	160 liters/42 gallons

6. Circulate the diluted *Selective Micro®Clean-Alpha* solution through all lines and between tanks using the system's pumps.
7. Run approximately 6 ounces of the *Selective Micro®Clean-Alpha* solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT**.
8. The next day, flush the *Selective Micro®Clean-Alpha* solution through all faucets and outlets until the tanks are empty.
9. Refill the tanks with rinse water to approximately 10% of their capacity (10 gallons per 100 gallons capacity).
10. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
11. Tanks are now cleaned and can be refilled for use or left empty for storage.
12. Dispose of pouch(es) according to instructions on pouch label.

HORTICULTURAL DISINFECTANT, SANITIZER, ALGAECIDE, FUNGICIDE AND SLIME REMOVER/INHIBITER

Treats/Controls/Inhibits: Algae (*Phormidium boneri*) and Fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. basilicum* (Fob))

This product, when used as directed:

- (1) disinfects non-porous hard surfaces, pots, flats, flower buckets and cutting tools;
- (2) sanitizes non-porous hard surfaces, racks, stands, work areas, benches and cutting tools;
- (3) removes or inhibits (under continuous treatment) re-establishment of slime in irrigation/transfer lines and systems;
- (4) treats, controls and prevents build-ups of soil-borne plant diseases and other algae, fungi and attendant slimes on: soils used to grow nursery stocks, bedding plants, flowering plants and ornamentals; on cut flowers and other cuttings, seedlings and seeds; and on and within greenhouse equipment and structures such as irrigation/transfer lines and systems, pots, floors, ventilation ducts and equipment, storage rooms, growing tables, evaporative coolers, plastics, benches and flower pots; and
- (5) controls bacterial counts, maintains freshness, and extends shelf life for cut flowers.

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NOTE: Do not use at concentrations higher than those recommended for each application. When applied directly to plants, seeds, cuttings or flowers as directed, *Selective Micro® Clean-Alpha* does not cause adverse cosmetic effects, as testing has demonstrated. However, testing has not been performed on EVERY plant species, and users are advised to spot-test *Selective Micro® Clean-Alpha* before applying it widely.

Active solution may be irritating if breathed. If applying solution inside greenhouse or enclosed area using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide: after treatment, ventilate greenhouse before reentering.

A. To disinfect non-porous hard surfaces, including stainless steel, glazed tile, and sealed concrete & wood used in horticultural applications:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times noted below in the instructions associated with the desired application. Dispose of pouch according to instructions on pouch label.

FOR WORK AREAS, BENCHES AND EVAPORATIVE COOLERS

4. Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:5 dilution device (one part activated solution to four parts water).
5. Spray or swab work area and bench surfaces before each work period and again after each planting is completed to help control the transfer of diseases. Spray or swab evaporative cooler surfaces, ensuring visible wetness for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.

FOR POTS, FLATS, FLOWER BUCKETS AND CUTTING TOOLS

FOR A TEN (10) MINUTE OR LONGER DISINFECTION

4. Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:5 dilution device (one part activated solution to four parts water).
5. Brush or wash used pots and flats, and then soak in the 100 ppm solution for at least ten (10) minutes before reuse to help control transfer of diseases. Soak tools with 100 ppm solution for at least ten (10) minutes to help control the transfer of disease.
6. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.

At end of workday, dry and oil tools.

FOR A TWENTY (20) MINUTE OR LONGER DISINFECTION

4. Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:10 dilution device (one part activated solution to nine parts water).
5. Brush or wash used pots and flats and then soak in the 50 ppm solution for at least twenty (20) minutes before reuse to help control transfer of diseases. Soak tools with 50 ppm solution for at least twenty (20) minutes to help control the transfer of disease.
6. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.

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At end of workday, dry and oil tools.

B. To sanitize work area non-porous (non-food contact) hard surfaces, hard-surface benches, pots, flats, flower buckets and cutting tools:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Pre-clean all surfaces prior to application of sanitizing solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare a 20 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:25 dilution device (one part activated solution to 24 parts water).
4. Brush or wash used pots and flats then swab or soak in the 20 ppm solution for at least five (5) minutes before reuse to help control transfer of diseases. Spray, swab or soak tools with 20 ppm solution for at least five (5) minutes to help control the transfer of disease. Spray or swab work area and bench surfaces before each work period and again after each planting is completed to help control the transfer of diseases. If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. If soaking, discard solution in sanitary drain or as ordinary non-hazardous waste; do not reuse solution.
5. Dispose of pouch according to instructions on pouch label.

At end of workday, dry and oil tools

C. As a dip to control and suppress bacteria, algae (such as *Botrydiopsis alpin* and *Phormidium boneri*) and fungi (such as *Penicillium digitatum*, *Botrytis sp.*, and *Fusarium solani*) on rooted and unrooted cuttings and cut flowers:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:100 dilution device (one part activated solution to 99 parts water).
3. Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of pouch according to instructions on pouch label.

D. As a dip or drench to control and suppress bacteria, algae (*Phormidium boneri*) and fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum (Fob)*) in seed-bed soil and planting cubes:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on the pouch label.
2. Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:100 dilution device (one part activated solution to 99 parts water).
3. Immerse or drench seed-bed soil or planting cubes and allow to remain visibly wet with solution for ten (10) minutes.
4. Dispose of pouch according to instructions on pouch label.

Soil or planting cubes can be seeded or planted immediately after treatment.

E. For removing slime and retarding its reemergence; for antimicrobial applications involving algae (*Phormidium boneri*) and fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f.*

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sp. *Basilicum (Fob)*); and for continuous treatment to inhibit their re-establishment in irrigation systems, flood floors, flooded benches, misting systems, humidification systems, recycled water systems and capillary mats:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times or are applied continuously as noted below. Dispose of pouch according to instructions on pouch label.

AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT WATER HOLDING TANKS AND LINES (CLEAN-IN-PLACE APPLICATION)

4. Flush tank thoroughly with clean water.
5. Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:10 dilution device (one part activated solution to nine parts water).
6. Fill tank completely. Run solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least twenty (20) minutes.
7. Drain tanks and lines, flush with clean water, and resume normal operation.

AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT AND REMOVE SLIME, ALGAE AND FUNGI FROM WATER HOLDING TANKS AND IRRIGATION/TRANSFER LINES (CLEAN-IN-PLACE APPLICATION)

4. Flush tank thoroughly with clean water.
5. Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:10 dilution device (one part activated solution to nine parts water).
6. Fill tank completely. Run solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines overnight (12 hours).
7. Drain tanks and lines, flush with clean water, and resume normal operation.

FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and FUNGI

4. Dilute the 500 ppm solution to 0.25 ppm using a 1:2,000 dilution device **OR** by adding one part 500 ppm solution to 1,999 parts water.
5. Use the 0.25 ppm solution to operate the water system following normal application procedures.

F. As an algacide and fungicide for treating, preventing, suppressing and controlling horticultural diseases in commercial greenhouses, garden centers and nurseries:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Pre-clean all non-plant surfaces prior to application of solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure all plant surfaces are wetted and remain visibly wet for the times noted below. Dispose of pouch according to instructions on pouch label.

AS AN INITIAL OR REMEDIAL TREATMENT TO KILL ALGAE AND FUNGI ON SURFACES, EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:

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4. Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* solution with a 1:100 dilution device (one part activated solution to 99 parts water).
5. Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour.

Note: Heavy growths of algae or fungi may require scrubbing to remove dead growth.

AS A WEEKLY PREVENTATIVE TREATMENT TO KILL, CONTROL AND SUPPRESS FUNGI AND CONTROL AND SUPPRESS ALGAE ON SURFACES, EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:

4. Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted 500 ppm with a 1:100 dilution device (one part activated solution to 99 parts water).
5. Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour (kill/cidal) and at least one minute (suppression).

G. As a dip to control and suppress bacteria on cuttings and cut flowers:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
3. Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of pouch according to instructions on pouch label.

H. To maintain freshness and extend shelf-life for cut flowers:

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on pouch label.
2. Prepare a 5 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selective Micro® Clean-Alpha* pouch with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
3. Unbundle the flowers to preclude bunching, and place in vase on display or in cold storage in the 5 ppm solution of chlorine dioxide. Solution may include 2% sucrose.
4. Refresh solution every 24 hours.
5. Dispose of pouch according to instructions on pouch label.

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TO EXTEND SHELF-LIFE AND FRESHNESS OF FRUITS AND VEGETABLES IN FOOD PROCESSING FACILITIES

THIS PRODUCT WILL REDUCE CONCENTRATIONS OF SPOILAGE MICROBES ON RAW AGRICULTURAL COMMODITIES (RACS) INTENDED FOR COMMERCIAL FOOD PROCESSING.

1. Activate *Selective Micro® Clean-Alpha* according to "Directions for Use" on the pouch label.
2. Wash and thoroughly rinse fruits and vegetables with clean, potable water.
3. Prepare a 5 ppm solution of activated *Micro® Clean-Alpha* OR use the 500 ppm solution with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
4. Apply to fruits and vegetables by: either immersing/dipping in a tank of 5 ppm solution for one minute OR using an application-specific sprayer (the industry standard fan or cone spray nozzle pattern) to cover all surfaces evenly with a 5 ppm spray. Replenish immersion solution at the rate of depletion; verify 5 ppm concentration using *Selective Micro® Chlorine Dioxide Test Strips*. Empty and wash immersion tanks with every shift change.
5. Follow application to fruits and vegetables with a potable water rinse or canning, blanching, or cooking.
6. Dispose of pouch according to instructions on pouch label.

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