

74986-1

1/18/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

January 18, 2005

George G. Misko  
Keller and Heckman, LLP  
1001 G Street, NW  
Suite 500 West  
Washington, DC 20001

Subject: Selective Micro Technologies, LLC  
Selective Micro Clean-A  
EPA Registration Number 74986-1  
Application Dated: October 20, 2004  
Receipt Date: October 20, 2004

Dear Mr. Misko:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- Revisions per August 28, 2003, Agency letter
- To add a technical bulletin

**Conditions**

1. Revise the Ingredient statement as follows:

ACTIVE INGREDIENT:	
Sodium Chlorite .....	13.45%
OTHER INGREDIENTS: .....	86.55%
Total	100.00%

2. Add the statement "For 100ppm use a device or sprayer with a 1:5 dilution" under the "Antimicrobial and General Cleaning Applications for Potable Water" heading.

CONCURRENCES

SYMBOL	7510C						
SURNAME	Mitchell						
DATE	1-18-05						

3. Revise the technical bulletin as follows:
  - a. The complete sterilant disclaimer statement must appear under the "Disinfectant Uses in Medical and Dental Offices, Laboratories, Hospitals, Clinics, Morgues and Institutions."
  - b. Add the directions to "Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse" under the "To disinfect commercial facilities such as poultry . . ." heading.

### **General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit a copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Wanda Mitchell at (703) 308-6345.

Sincerely,

Emily H. Mitchell  
Product Manager - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510C)



Selective Micro Technologies

# SELECTIVE MICRO<sup>®</sup> CLEAN-A DISINFECTANT/SANITIZER/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 aureus*, and *vancomycin-resistant Enterococcus faecalis*; and as a **sanitizer** against *E. coli*, *S. aureus*, and *Klebsiella pneumonia*.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

(See back panel for other cautions)

Active Ingredient:	
Sodium Chlorite.....	13.45%
Inert Ingredients.....	86.55%
Total.....	100.00%

Amount of Chlorine Dioxide generated = 0.05%

### FIRST AID

<b>If in Eyes:</b> 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.
<b>If on Skin or Clothing:</b> 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.
<b>If Swallowed:</b> 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.
<b>If Inhaled:</b> 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. 74986-1      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..... 1.0 ounces (29.2 grams)

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. 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: IS 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 15 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 with *Selective Micro<sup>®</sup> 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.

ACCEPTED WITH COMMENTS  
EPA Letter Dated: JAN 18 2005  
Under Federal Insecticide, Fungicide, and Rodenticide Act  
registered under EPA Reg. No. 74986-1

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**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 MERCHANTABILITY. 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, and 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/MSHA-approved respirator appropriate for chlorine dioxide when using a high-pressure sprayer.

**SANITIZER FOR FOOD-CONTACT NON-POROUS, HARD SURFACES:** Effective food contact surface sanitizer at 5 ppm against *E. coli* 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 5 ppm concentration, 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 NON-FOOD-CONTACT NON-POROUS, HARD SURFACES:** Effective non-food contact surface sanitizer at 20 ppm against *Staphylococcus aureus* and *Klebsiella pneumoniae* with an exposure time of 5 minutes. Product may be used on non-food contact surfaces, including floors, walls, and furnishings. For 20 ppm, 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.

**HARD, NON-POROUS SURFACE DISINFECTANT:** Product may be used to disinfect hard surfaces in medical or veterinary clinics that may be contaminated with *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, methicillin-resistant *S. aureus*, and vancomycin-resistant *Enterococcus faecalis*. This product may be used to disinfect general environmental surfaces. For 100 ppm (10-minute application) 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 tanks and 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 100 ppm (10 minutes), use a dilution device with a 1:5 dilution (one part solution to four 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. Use the number of pouches specified in the Technical Bulletin. See Technical Bulletin for preparation, dilution instructions and application specifics.

**ANTIMICROBIAL APPLICATIONS FOR NON-POTABLE WATER SYSTEMS IN 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 5 ppm, use a 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.

**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 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 follow 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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**SELECTIVE MICRO<sup>®</sup>CLEAN-A**  
**Technical Bulletin 2004 – 01A**  
**Disinfectant/Sanitizer/ Deodorizer**

Activate *Selective Micro<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A***

TO PREPARE A FINAL SOLUTION OF THIS CONCENTRATION	DO ANY ONE OF THE FOLLOWING:					
	(1)	(2)	(3)	(4)		
	Add One (1) Part Activated Solution to This Many Parts Water	Use Contents of an Activated Pouch of with a Dilution Device set at:	Add Entire Contents (2 liters) of the Activated Pouch to This Much Water:	Add The Indicated Volume of Activated <i>Selective Micro<sup>®</sup>Clean-A</i> Solution To Each Liter, Gallon, or Quart of Water:		
			1 Liter	1 Gallon	1 Quart	
5 ppm	99	1:100	52 gallons (198 liters)	11 ml	1.3 fl oz	0.4 fl oz
20 ppm	24	1:25	12.5 gallons (48 liters)	42 ml	5.4 fl oz	1.4 fl oz
50 ppm	9	1:10	4.75 gallons (18 liters)	112 ml	14.3 fl oz	3.6 fl oz
100 ppm	4	1:5	2.1 gallons (8 liters)	250 ml	32.0 fl oz	8.0 fl oz

Check concentration of solution using *Selective Micro<sup>®</sup>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.

**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<sup>®</sup> Clean-A*. 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<sup>®</sup> 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

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### 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<sup>®</sup> Clean-A* 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<sup>®</sup> Clean-A* pouch with a 1:100 dilution device (one part activated solution to 99 parts water) **OR** use a 50 ppm solution of activated *Selective Micro<sup>®</sup> Clean-A* with a 1:10 dilution device (one part activated solution to 9 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 are 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<sup>®</sup> Clean-A* 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<sup>®</sup> Clean-A* pouch with a 1:25 dilution device (one part activated solution to 24 parts water) **OR** use a 50 ppm solution of *Selective Micro<sup>®</sup> Clean-A* with a 1:2.5 dilution device (two parts activated solution to three parts water).
4. To apply: spray, mop or sponge onto the surfaces to be sanitized, ensuring that 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<sup>®</sup> Clean-A* 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<sup>®</sup> Clean-A* 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 are 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

**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<sup>®</sup> Clean-A* 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<sup>®</sup> Clean-A* 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.

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

1. Activate *Selective Micro<sup>®</sup> Clean-A* according to "Directions for Use" on pouch label.

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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<sup>®</sup>Clean-A* 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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**C. To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns and kennels:**

1. Activate *Selective Micro<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* 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.

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**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 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**

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1. Activate *Selective Micro<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* pouch with a 1:5 dilution device (one part activated solution to four parts water) **OR** add the entire contents of one *Selective Micro<sup>®</sup>Clean-A* 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 according to instructions on pouch label.

## ANTIMICROBIAL AND GENERAL CLEANING 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. 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<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* pouches.
2. Activate *Selective Micro<sup>®</sup>Clean-A* according to "Directions for Use" on pouch label.
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<sup>®</sup>Clean-A* 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

5. Circulate the diluted *Selective Micro<sup>®</sup>Clean-A* solution through all lines and between tanks using the system's pumps.
6. Run approximately 6 ounces of the *Selective Micro<sup>®</sup>Clean-A* solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT.**
7. The next day, flush the *Selective Micro<sup>®</sup>Clean-A* solution through all faucets and outlets until the tanks are empty.
8. Refill the tanks with rinse water to approximately 10% of their capacity (10 gallons per 100 gallons capacity).

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9. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
10. Tanks are now cleaned and can be refilled for use or left empty for storage.
11. Dispose of pouch according to instructions on pouch label.

## DISINFECTANT, SANITIZER, AND ANTIMICROBIAL FOR HORTICULTURAL SETTINGS

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) reduces microbial populations on cuttings and cut flowers.

**NOTE: Do not use at concentrations higher than those recommended for each application.** When applied directly to cuttings or cut flowers as directed, *Selective Micro<sup>®</sup>Clean-A* does not cause adverse cosmetic effects, as extensive testing has demonstrated. However, testing has not been performed on EVERY plant species, and users are advised to spot-test *Selective Micro<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* 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.

#### 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<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* solution with a 1:5 dilution device (one part activated solution to four parts water).

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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<sup>®</sup>Clean-A* 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<sup>®</sup>Clean-A* 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 1 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<sup>®</sup>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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