

Selectroicide®

G Series

5G | 10G | 12G | 15G | 12G MultiPack-15

Technical Bulletin

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

EPA Registration No. 74986-5

EPA Establishment No. 071441-OH-004

To activate: See “Directions for Use” on package label

Use the following number of envelopes to prepare a 500 ppm solution of chlorine dioxide in the indicated volume of water inside a closed container:

For this concentration of chlorine dioxide	In this Volume of Water:		Immerse this number of <i>Selectroicide</i> ®5G envelopes for at least ten (10) hours	Immerse this number of <i>Selectroicide</i> ®10G envelopes for at least ten (10) hours	Immerse this number of <i>Selectroicide</i> ®12G envelopes for at least ten (10) hours	Immerse this number of <i>Selectroicide</i> ®15G envelopes for at least ten (10) hours	Immerse this number of <i>Selectroicide</i> ®12G <i>MultiPack-15s</i> for at least ten (10) hours
	Gallons	Liters					
500 ppm	2.5	10	1				
500 ppm	5	20	2	1			
500 ppm	6	24			1		
500 ppm	7.5	30				1	
500 ppm	10	40	4	2			
500 ppm	12	48			2		
500 ppm	15	60	6	3		2	
500 ppm	18	72			3		
500 ppm	23	90			4	3	
500 ppm	30	120		6	5	4	
500 ppm	50 ¹	190		10	8	7	
500 ppm	95 ²	360					1
500 ppm	190	720					2

1 For use especially in a 55-gallon drum

2 For use especially in a 100-gallon container

Remove envelope from activation vessel within 48 hours.

(Alternative dilution concentrations to targeted end-concentrations appear on the next page.)

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Alternatively, use the following volumes of water to achieve the desired concentrations of chlorine dioxide inside a closed container:

NOTE: Activating the *Selectrocide*®12G MultiPack-15 product directly to end-use concentrations (100 ppm or less) is generally impractical due to container volume limitations (e.g., diluting directly to 100 ppm would require a container of nearly 500-gallon capacity). Unless adequate large-capacity containers for mixing/storing are available, the 12G MultiPack-15 should be activated to 500 ppm as specified on the previous page and diluted subsequently to the required application concentration. Contact Selective Micro Technologies for further details.

For this concentration of chlorine dioxide	Immerse the <i>Selectrocide</i> ®5G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectrocide</i> ®10G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectrocide</i> ®12G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectrocide</i> ®15G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.
100 ppm	50 liters	100 liters	120 liters	150 liters
100 ppm	13.0 gallons	26 gallons	31 gallons	39 gallons
50 ppm	100 liters	200 liters	240 liters	300 liters
50 ppm	26.0 gallons	52 gallons	63 gallons	79 gallons
20 ppm	250 liters	500 liters	600 liters	750 liters
20 ppm	65.5 gallons	132 gallons	158 gallons	198 gallons
5 ppm	1,000 liters	2,000 liters	2,400 liters	3,000 liters
5 ppm	260 gallons	528 gallons	630 gallons	790 gallons
0.25 ppm	20,000 liters	40,000 liters	48,000 liters	60,000 liters
0.25 ppm	5,275 gallons	10,560 gallons	12,675 gallons	15,850 gallons

Do not remove 5G envelope from container of water prior to 10 hours.

[10G, 12G, 15G and 12G MultiPack-15—10 hours]

Discard the spent 5G [10G, 12G, 15G] envelope or 12G MultiPack-15 and mesh bag (follow disposal instructions on package label), and mix solution gently prior to use.

Do not reuse 5G [10G, 12G, 15G] envelope or 12G MultiPack-15.

Check concentration of solution using *Selective Micro*® Chlorine Dioxide Test Strips.

(See box on following page 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 package label.

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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. Respiratory protection is not required under the limited exposure conditions of most normal use patterns. However, wear a NIOSH/MSHA-approved respirator under the following conditions:
 - a. when applying activated solution with a high-pressure sprayer
 - b. when working with the activated solution for an extended period of time in a closed facility or in a poorly-ventilated area
 - c. when normal workshift duties entail uninterrupted periods of applying the activated solution with mop, sponge, or sprayer
 - d. when opening vessel containing stock activated solution (at 500 ppm) generated using G-series products
 - e. if OSHA inhalation exposure limits are reached or exceeded (see MSDS).
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) *Selectrocide*[®]5G [10G, 12G, 15G]. 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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ATCC (OR OTHER) DESIGNATIONS FOR PATHOGENIC ORGANISMS
LISTED ON THE LABELS OF REGISTERED SELECTROCIDAL PRODUCTS

—Always Consult Label to Verify Concentrations and Contact Times—

Bacteria (disinfection claims) 100 ppm/10-minute contact time

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Salmonella enterica (choleraesuis)</i>	ATCC 10708
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis</i> (VRE)	ATCC 51299
<i>Candida albicans</i>	ATCC 10231
<i>Trichophyton mentagrophytes</i>	ATCC 9533
<i>Listeria monocytogenes</i>	ATCC 19111
<i>Klebsiella pneumonia</i>	ATCC 4352
<i>Mycobacterium bovis</i> (TB)	BCG (Organon Teknika Corporation)

Bacteria (disinfection claims) for 50 ppm/20-minute contact time for clean-in-place applications

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Salmonella enterica (choleraesuis)</i>	ATCC 10708
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis</i> (VRE)	ATCC 51299
<i>Candida albicans</i>	ATCC 10231

***Viruses (virucidal claims at 100 ppm/10-minute contact time)**

<i>Coronavirus</i>	ATCC VR-740, Strain 229E
<i>Feline Calicivirus</i>	ATCC VR-782, Strain F-9
<i>Hepatitis A virus</i>	Strain HM-175
<i>Human Immunodeficiency Virus type 1 (HIV-1)</i>	Strain HTLV-III _B
<i>Poliovirus-1</i>	ATCC VR-1000, Strain Brunhilde
<i>Rotavirus</i>	Strain WA
<i>Influenza-A virus</i>	ATCC VR-544, Strain Hong Kong
<i>Rhinovirus type 37</i>	ATCC VR-1147, Strain 151-1
<i>Canine Parvovirus</i>	ATCC VR-2017, Strain Cornell
<i>Adenovirus type 5</i>	ATCC VR-5, Strain Adenoid 75
<i>Herpes Simplex virus type 2</i>	ATCC VR-734, Strain G
<i>Vaccinia virus</i>	ATCC VR-119, Strain WR
<i>Norovirus (feline calicivirus surrogate)</i>	ATCC VR-782, Strain F-9
Pandemic 2009 H1N1 Influenza A virus	Reference <i>Influenza-A virus</i> (above)

Bacteria (sanitizer claim for hard, non-porous food contact surfaces) 5 ppm/1-minute contact time

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Escherichia Coli</i>	ATCC 11229
<i>Escherichia coli O157:H7</i>	ATCC 43895
<i>Salmonella typhimurium</i> (MDRS)	CI 01005 (University of Maryland)

Bacteria (sanitizer claim for hard, non-porous non-food contact surfaces) 20 ppm/5-minute contact time

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Klebsiella pneumonia</i>	ATCC 4352
<i>Listeria monocytogenes</i>	ATCC 1911

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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 *Selectroicide*®5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package 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 of activated *Selectroicide*®5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm 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 package and spent envelope according to instructions on package label.

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

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

1. Activate *Selectroicide*®5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to sanitizing.
3. Prepare a 20 ppm solution of activated *Selectroicide*®5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:25 dilution device (one part 500 ppm solution to 24 parts water).
4. To apply: spray, mop, sponge or swab 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 package and spent envelope according to instructions on package 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 *Selectroicide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Remove all gross food particles and soil prior to disinfecting using a pre-flush, pre-scrub 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 of activated *Selectroicide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm 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 package and spent envelope according to instructions on package label.

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

NOTE: 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) 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 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, glazed tile floors, walls, ceilings, stainless steel cold rooms and walk-in incubators:

1. Activate *Selectroicide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution of activated *Selectroicide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm solution to four parts water).
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. 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 package and spent envelope according to instructions on package label.

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

1. Activate *Selectroicide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution of activated *Selectroicide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm solution to four parts water).
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. 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 package and spent envelope according to instructions on package label.

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

1. Activate *Selectroicide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package 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 of activated *Selectroicide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm 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 keeping visibly wet 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. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.
10. Dispose of package and spent envelope according to instructions on package 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, tanks should be cleaned and then flushed thoroughly with clean, potable water.

FOR A TEN (10) MINUTE OR LONGER DISINFECTION

1. Activate *Selectrocid*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Prepare a 100 ppm solution of activated *Selectrocid*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm solution to four parts water).
3. **Fill tank completely with 100 ppm solution** (filling the tank completely may require activation of several 5G [10G, 12G, 15G] envelopes, or a single 12G MultiPack-15). 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 package and spent envelope according to instructions on package label.

FOR A TWENTY (20) MINUTE OR LONGER DISINFECTION

1. Activate *Selectrocid*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Prepare a 50 ppm solution of activated *Selectrocid*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:10 dilution device (one part 500 ppm solution to nine parts water), OR, if initial activation was to 100 ppm directly, use a 1:2 dilution device (one part 100 ppm solution to one part water).
3. **Fill tank completely with 50 ppm solution** (filling the tank completely may require activation of several 5G [10G, 12G, 15G] envelopes or a single 12G MultiPack-15). 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 package and spent envelope according to instructions on package label.

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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, 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.

NOTE: If the tank system is cleaned frequently, then consider the level of contamination to be **low to moderate**. If the tank system is used heavily, notably fouled, cleaned irregularly, or going into or coming out of overwintering, then consider the tank(s) level of contamination to be **high**.

- Based on the judged level of contamination (see box above), determine the number of *Selectrocid*[®]5G envelopes necessary to clean the drinking water system in accordance with the table below. Consider all interconnected tanks in the system as one. [For example: A system with two 250-gallon tanks has a total capacity of 500 gallons. At low to moderate contamination, use one (1) *Selectrocid*[®]5G envelope; at high levels of contamination, use three (3) 5G envelopes.]

THEN, EITHER FOLLOW STEPS 2 and 3 **OR** STEPS 4 and 5

- Drain all water tanks completely. Then, refill tanks with water to approximately 10% of capacity (for example, a 250-gallon tank should be filled with 25 gallons of water).
- Activate the appropriate number of *Selectrocid*[®]5G envelopes (see step 1 above, and note there is one envelope within each package) according to “Directions for Use” on package label by immersing the envelopes in the water tank, closing the tanks, and waiting ten (10) hours. Remove spent 5G envelopes from water, and close the tank.

OR

- Activate the appropriate number of *Selectrocid*[®]5G envelopes (one envelope within each package) in water according to the “Directions for Use” on package label and according to the following table:
- After ten (10) hours, remove and discard spent 5G envelopes according to package instructions, and add solution into the water tank. **Do not add additional water. Do not refill tank. Close the tank.**

FOR TANKS OF THIS OVERALL SIZE		AND WITH LOW to MODERATE LEVELS OF CONTAMINATION		AND WITH HIGH LEVEL OF CONTAMINATION	
More than:	Less Than:	IMMERSE THIS NUMBER OF 5G ENVELOPES	IN THIS MUCH WATER	IMMERSE THIS NUMBER OF 5G ENVELOPES	IN THIS MUCH WATER
50 gallons	250 gallons	1	90 liters/25 gallons	1	90 liters/25 gallons
250 gallons	500 gallons	1	185 liters/50 gallons	2	185 liters/50 gallons
500 gallons	800 gallons	1	300 liters/80 gallons	3	300 liters/80 gallons
800 gallons	1100 gallons	2	415 liters/110 gallons	4	415 liters/110 gallons

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1100 gallons	1300 gallons	2	490 liters/130 gallons	5	490 liters/130 gallons
1300 gallons	1600 gallons	2	600 liters/160 gallons	6	600 liters/160 gallons
1600 gallons	2000 gallons	3	750 liters/200 gallons	8	750 liters/200 gallons

THEN:

6. Circulate the *Selectrocide*[®] 5G solution through all lines and within or between tanks using the system's pumps.
7. Run approximately 6 ounces of the *Selectrocide*[®] 5G solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT** (or approximately 12 hours).
8. The next day, or after 12 hours, flush the *Selectrocide*[®] 5G solution through all faucets and outlets until the tanks are empty.
9. Refill the tanks with rinse water to approximately 10% of their capacity (e.g., 25 gallons per 250- 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 package(s) and spent 5G envelope(s) according to instructions on package label

FOR APPLICATIONS INVOLVING LARGER TANKS (UP TO 10,000-GALLON CAPACITY), USE THE 10G, 12G OR 15G PRODUCTS AND FOLLOW THESE STEPS:

1. Based on the judged level of contamination (see box at beginning of this application section), determine the number of *Selectrocide*[®] 10G [12G, or 15G] envelopes necessary to clean the tanks and lines in the water system according to the following table:

10G, 12G, and 15G PRODUCTS

FOR TANKS OF THIS OVERALL SIZE		FILL WITH APPROXIMATELY THIS MUCH WATER (≈ 10% of capacity)	FOR LOW-MODERATE LEVELS OF CONTAMINATION IMMERSE THIS NUMBER OF G-SERIES ENVELOPES			FOR HIGH LEVELS OF CONTAMINATION IMMERSE THIS NUMBER OF G-SERIES ENVELOPES		
More than:	Less Than:		10G	12G	15G	10G	12G	15G
50 gal.	500 gal.	185 liters/50 gal.	1	1	1	1	1	1
500 gal.	1,000 gal.	375 liters/100 gal.	1	1	1	2	2	2
1,000 gal.	1,500 gal.	560 liters/150 gal.	1	1	1	3	3	2
1,500 gal.	2,000 gal.	750 liters/200 gal.	2	1	1	4	4	3
2,000 gal.	2,500 gal.	940 liters/250 gal.	2	2	1	5	4	4
2,500 gal.	3,000 gal.	1,130 liters/300 gal.	2	2	2	6	5	4
3,000 gal.	3,500 gal.	1,320 liters/350 gal.	2	2	2	7	6	5
3,500 gal.	4,000 gal.	1,510 liters/400 gal.	3	2	2	8	7	6
4,000 gal.	5,000 gal.	1890 liters/500 gal.	3	3	2	10	8	7
5,000 gal.	6,000 gal.	2270 liters/600 gal.	4	3	3	12	10	8
6,000 gal.	7,500 gal.	2835 liters/750 gal.	5	4	3	15	12	10
7,500 gal.	10,000 gal.	3785 liters/1000 gal.	6	5	4	19	16	13

2. Drain all water tanks completely. Then, refill tanks to approximately 10% of capacity with potable water. *For example*, put 50 gallons (approximately 185 liters) of water in a tank of 500-gallon capacity and 250 gallons (approximately 945 liters) of water in a tank of 2,500-gallon capacity. Immerse the number of 10G [12G, 15G] envelopes determined in step 1 above in the water tank. **Do not add additional water. Do not refill tank. Close the tank.**
3. Wait 10 hours for the 10G [12G, 15G] to generate, and then remove the spent envelopes. Close the tank. Discard envelopes according to the instructions on the package label.
4. Circulate the *Selectrocide*[®] 10G [12G, 15G] solution through all lines and within or between tanks using the system's pumps.

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5. Run approximately 6 ounces of the *Selectrocide*[®] 10G [12G, 15G] solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT** (approximately 12 hours).
6. The next day, or after twelve hours, flush the *Selectrocide*[®] 10G [12G, 15G] solution through all faucets and outlets until the tanks are empty.
7. Refill the tanks with rinse water to approximately 10% of their capacity.
8. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
9. Tanks are now cleaned and can be refilled for use or left empty for storage
10. Dispose of package(s) and spent 10G [12G, 15G] envelope(s) according to instructions on package label.

FOR APPLICATIONS INVOLVING TANKS WITH LARGE CAPACITIES (4,000 GALLONS AND ABOVE, BUT ESPECIALLY FOR 10,000 GALLONS AND LARGER) YOU MAY USE THE *SELECTROCIDE*[®]12G MULTIPACK-15 AND FOLLOW THESE STEPS (all tanks are considered to be exhibit a high level of contamination for the MultiPack-15 applications) :

1. Determine the number of *Selectrocide*[®]12G MultiPack-15s necessary to clean the tanks and lines in the water system according to the following table (use one *12G Multipack-15* for tanks below 5,000 gallon capacity, and one additional MultiPack-15 for every additional 5,000 gallons in tank capacity above 5,000).

12G MULTIPACK-15 PRODUCT

FOR TANKS OF THIS OVERALL SIZE		IMMERSE THIS NUMBER OF 12G MultiPack-15s	IN THIS AMOUNT OF WATER	
More than:	Less Than:		Liters	Gallons
4,000 gallons	5,000 gallons	1	7,200	1,900
5,000 gallons	10,000 gallons	2	14,400	3,800
10,000 gallons	15,000 gallons	3	21,600	5,700
15,000 gallons	20,000 gallons	4	28,800	7,600
20,000 gallons	25,000 gallons	5	36,000	9,500
25,000 gallons	30,000 gallons	6	43,200	11,400

2. Drain all water tanks completely. Then, refill tanks with 7,200 liters (1,900 gallons) of potable water for every MultiPack-15 required. (Four MultiPack-15s, for example, would require 4 x 7,200 liters = 28,800 liters (7,600 gallons) of water). This will achieve a 25 ppm solution. Immerse the number of mesh bags of MultiPack-15s determined in step 1 above in the water tank. **Do not add additional water. Do not refill tank. Close the tank.**
3. Wait 10 hours, and then remove the mesh bag(s) containing the MultiPack-15(s). Close the tank. Discard bag and spent MultiPack-15(s) contents according to the instructions on the package label.
4. Circulate the *Selectrocide*[®]12G MultiPack-15 solution through all lines and within or between tanks using the system's pumps.
5. Run approximately 6 ounces of the *Selectrocide*[®]12G MultiPack-15 solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT** (approximately 12 hours).
6. The next day, or after twelve hours, flush the *Selectrocide*[®]12G MultiPack-15 solution through all faucets and outlets until the tanks are empty.
7. Refill the tanks with rinse water to approximately 10% of their capacity.
8. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
9. Tanks are now cleaned and can be refilled for use or left empty for storage
10. Dispose of bag and spent 12G MultiPack-15 according to instructions on package label.

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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.

NOTE: Do not use at concentrations higher than those recommended for each application. When applied directly to plants, seeds, cuttings or flowers as directed, *Selecticide*®5G [10G, 12G, 15G, 12G MultiPack-15] 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 *Selecticide*®5G [10G, 12G, 15G, 12G MultiPack-15] 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.

OPTIONAL DILUTION INSTRUCTIONS FOR HORTICULTURAL SETTINGS: The following dilution chart is consistent with the other dilution instructions contained in this technical bulletin. It is tailored to the typical dilution ratios of 1:10 and 1:200 necessary for some horticultural applications. Use this chart, or dilution instructions presented elsewhere, most compatible with available dilution devices.

OPTIONAL DILUTION INSTRUCTIONS DESIGNED FOR DILUTION RATIOS REQUIRED TYPICALLY IN GREENHOUSES AND HORTICULTURAL SETTINGS			
To achieve a final chlorine dioxide concentration of :	Use a single Selective Micro Envelope of this size:	Activated in this many gallons of water:	And apply using a device with an injection ratio of :
100 ppm	5G	12.5 gal	Undiluted
100 ppm	10G	26 gal	Undiluted
100 ppm	12G	30 gal	Undiluted
100 ppm	15G	39 gal	Undiluted
<hr/>			
50 ppm	5G	25 gal	Undiluted
50 ppm	5G	2.5 gal	1:10
50 ppm	10G	52 gal	Undiluted
50 ppm	10G	5 gal	1:10
50 ppm	12G	6 gal	1:10
50 ppm	15G	8 gal	1:10
<hr/>			
20 ppm	5G	65.5 gal ³	Undiluted
20 ppm	10G	12.5 gal	1:10
20 ppm	12G	15.8 gal	1:10
20 ppm	15G	19.8 gal	1:10
<hr/>			
5 ppm	5G	250 gal	Undiluted

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0.25 ppm	5G	25 gal	1:200
0.25 ppm	10G	50 gal	1:200
0.25 ppm	12G	60 gal ⁴	1:200
0.25 ppm	12G MultiPack-15	950 gal	1:200

³ Exceeds capacity of 55-gallon drum; activating the 5G in a 55-gallon drum will yield an application solution at a concentration of about 24 ppm—effective, but higher than necessary.

⁴ Exceeds capacity of 55-gallon drum; activating in a 55-gallon drum, and diluting with a 1:200 injection device, will yield an application solution at a concentration of about 0.29 ppm—effective, but higher than necessary.

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

1. Activate *Selectrocide*® 5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package 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 instruction number 6 associated with the desired application.
4. Dispose of package and spent envelope according to directions on package label.

FOR WORK AREAS, BENCHES AND EVAPORATIVE COOLERS

5. Prepare a 100 ppm solution of *Selectrocide*® 5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm solution to four parts water).
6. Spray or swab work area and bench surfaces with the 100 ppm solution 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

5. Prepare a 100 ppm of *Selectrocide*® 5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and dilute by adding one part 500 ppm solution to four parts water.
6. 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.

At end of workday, dry and oil tools.

FOR A TWENTY (20) MINUTE OR LONGER DISINFECTION

5. Prepare a 50 ppm solution of *Selectrocide*® 5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and dilute by adding one part 500 ppm solution to nine parts water, OR, if initial activation was to 100 ppm directly, use a 1:2 dilution device (one part 100 ppm solution to one part water).
6. 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.

At end of workday, dry and oil tools.

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

1. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package 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 of *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with the instructions above or prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:25 dilution device or add one part 500 ppm 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 plant is completed to help control the transfer of diseases.
5. Dispose of package and spent envelope according to instructions on package label.

At end of workday, dry and oil tools.

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

1. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package label
2. Prepare a 5 ppm solution of *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device or add one part 500 ppm solution to 99 parts water.
3. Briefly dip cuttings or cut flowers in 5 ppm solution, ensuring they remain visibly wet with solution for at least one minute.
4. Dispose of package and spent envelope according to instructions on package label.

D. As a dip or drench to control and suppress bacteria (*Erwinia chrysanthemi*), including 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 *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on the package label.
2. Prepare a 5 ppm solution of *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device or add one part 500 ppm 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 package and spent envelope according to instructions on package label.

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

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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. 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 *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package 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 concentrations indicated below and ensure surfaces are wetted and remain visibly wet for the times or are applied continuously as noted below.
4. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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

5. Flush tank thoroughly with clean water. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
6. Prepare a 50 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:10 dilution device (one part 500 ppm solution to nine parts water).
7. Fill tank completely. Run 50 ppm 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.
8. 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)

5. Flush tank thoroughly with clean water. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
6. Prepare a 50 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:10 dilution device (one part 500 ppm solution to nine parts water).
7. Fill tank completely. Run 50 ppm 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).
8. Drain tanks and lines, flush with clean water, and resume normal operation.

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

5. Prepare a 0.25 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above **OR** prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:2,000 dilution device or add one part 500 ppm solution to 1,999 parts water.
6. Use the prepared 0.25 ppm solution to operate the water system following normal application procedures.

NOTE: Use ultra low-range *Selective Micro*[®]*Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.25 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

F. As an algacide and fungicide for treating, preventing, suppressing and controlling horticultural diseases on hard, non-porous surfaces in commercial greenhouses, garden centers and nurseries:

1. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package 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 surfaces are wetted and remain visibly wet for the times noted below.
4. Dispose of package and spent envelope according to instructions on package label.

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

5. Prepare a 5 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above **OR** prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
6. Apply the 5 ppm 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.
7. 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 HARD NON-POROUS SURFACES ON EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS

5. Prepare a 5 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above **OR** prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
6. Apply 5 ppm 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).

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G. As a dip to control and suppress bacteria (*Erwinia chrysanthemi*) on cuttings and cut flowers:

1. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package label.
2. Prepare a 5 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with the instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
3. Briefly dip cuttings or cut flowers in 5 ppm solution and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of package and spent envelope according to instructions on package label.

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

1. Activate *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package label.
2. Prepare a 5 ppm solution of *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use 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 package and spent envelope according to instructions on package label.

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 *Selectrocide*[®]5G [10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on the package label.
2. Wash and thoroughly rinse fruits and vegetables with clean, potable water.
3. Prepare a 5 ppm solution of activated *Selectrocide*[®]5G [10G, 12G, 15G] in accordance with instructions above OR prepare a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
4. Apply the 5 ppm solution 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; surfaces should remain visibly wet for 1 minute. 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 package and spent envelope according to instructions on package label.

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ANTIMICROBIAL APPLICATIONS TO CONTROL THE BUILDUP OF MICROBES IN PROCESS WATERS FOR FRUITS AND VEGETABLES AND ASSOCIATED TANKS, FLUMES, AND LINES

This product will inhibit microbial growth in water used to process fruits and vegetables.

- NOTE:**
- 1. Replacement and replenishment intervals will vary with microbial challenge presented by fruits and vegetables treated. Selective Micro Technologies recommends a beginning concentration of 5 ppm, with adjustments to ensure a residual concentration between 0.25 and 5 ppm depending on microbial challenge and operation-unique factors.**
 - 2. Apply chlorine dioxide solution continuously or intermittently to achieve a residual concentration level between 0.25 – 5.0 ppm.**
 - 3. Regularly confirm concentration of process water using *Selective Micro*[®] Chlorine Dioxide Test Strips or other measurement means (e.g., Oxidation Reduction Potential (ORP) metering).**

1. At regular intervals or before beginning a shift, clean tanks, flumes, and lines using normal procedures, and follow with potable water rinse. In conditions of severe microbial accumulation (or when slime is visible), it is advisable to treat the thoroughly cleaned system with an antimicrobial treatment before returning the system to normal operation. See *Selectrocide*[®]'s "Antimicrobial and General Cleaning Applications for Water Lines and Tanks in Potable Water Systems" for recommendations on cleaning tanks that are contaminated severely.
2. Determine the number of *Selectrocide*[®] envelopes necessary based on the capacity of the tank or system, anticipated replenishment/replacement cycle based on expected microbial loads, and specific application method—once-through or recycled. The optimal concentration necessary to ensure a residual concentration of between 0.25 and 5.0 ppm will vary across operations.

For "once-through" process designs, generate *Selectrocide*[®] directly to the desired end-concentration in the system's operating tank (recommended) OR generate stock 500 ppm external to the tank and meter the stock solution in adequate volume to raise the volumes of process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

For "recycle" process designs, generate stock 500 ppm solution external to the tank and inject activated solution in sufficient volume to raise the process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

Consult pages 1-2 of this Technical Bulletin for dilution instructions, or scale to application using the table below, which presents, as a starting point, the total volume of stock 5 ppm solution generated using a single package of each product in the G-series product line. For example, with a 1,000-gallon system capacity, two 12Gs would fill the system at 5 ppm — and leave an additional 270 gallons at 5 ppm in reserve.

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**VOLUME OF 5 PPM SOLUTION USING
SINGLE SELECTROCID[®] G-SERIES PRODUCT**

Selectrocid [®] G-Series Product	Volume of Water Specified To Generate 500 ppm Stock Solution	Volume of 5 ppm Solution Created Using a Single Selectrocid [®] Envelope	
		Liters	Gallons ⁵
5G	10	1,000	265
10G	20	2,000	530
12G	24	2,400	635
15G	30	3,000	795
12G MultiPack-15	360	36,000	9,510

⁵ Rounded to nearest 5 gallons

3. Activate *Selectrocid[®]5G* [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
4. Prepare a 5 ppm solution of activated *Selectrocid[®]5G* [10G, 12G, 15G] directly in accordance with instructions above OR prepare a 500 ppm solution with any of the G-series products and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water) to achieve target concentration of 5 ppm.
5. Verify concentration of process solution using *Selective Micro[®]Chlorine Dioxide Test Strips* or other means. Adjust concentration by adding additional water if the concentration is above 5 ppm or by adding additional concentrate if below 5 ppm (or below desired concentration between 0.25 and 5.0 ppm).
6. Cover or enclose containers holding solution, and operate normally.
7. Check concentration at regular intervals using test strips or other means to ensure target concentration is maintained. Replenish solution as necessary to maintain target concentration.
8. At desired intervals, drain system, clean as necessary, and refill with freshly-activated solution.
9. Dispose of package and spent envelope according to instructions on package label.

ANTIMICROBIAL TREATMENT FOR POULTRY DRINKING WATER

This product will help control microorganisms in drinking water intended for poultry.

A. For systems that use automatic, on-demand metering/injection systems designed primarily for poultry (i.e., systems employing nipples or drip wells as the final water delivery device/method, usually situated in enclosed or protected structures):

1. Activate *Selectrocid[®]5G* [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on product label.
2. If activation vessel is different from feeder tank, transfer stock solution (500 ppm) to feeder tank. To maintain concentration, ensure that feeder tank is covered.
3. Operate system according to standard operating protocol, using a 1:100 injection device (one part solution to 99 parts water) for a concentration of 5 ppm.

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4. Confirm concentrations of stock solution (500 ppm) and end-use solution up to 5 ppm but not less than an application concentration sufficient to ensure a residual concentration of 0.25 ppm using *Selective Micro® Chlorine Dioxide Test Strips*.
5. Dispose of package and spent envelope according to instructions on package label.

Note: Clean and remove accumulations of organic matter in delivery lines on a regular basis. (See, for example, label and technical bulletin instructions for this product under the heading “Antimicrobial and General Cleaning Applications for Potable Water Systems”)

B. For trough-based systems.

1. Contact Selective Micro Technologies for application specifics.

SANITIZING FINAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

This product may be used as a final sanitizing rinse for plastic, glass or metal returnable and non-returnable bottles, cans, caps, kegs, and beverage containers.

1. Activate Selectroicide®5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.
2. Wash bottles, cans or containers with detergent or cleaning solution and rinse with potable water.
3. Prepare a 30 ppm solution EITHER by activating Selectroicide®5G [10G, 12G, 15G] directly to 30 ppm in accordance with instructions below OR by preparing a 500 ppm solution [5G, 10G, 12G, 15G, or 12G MultiPack-15] and using a 6:100 dilution device (six parts 500 ppm solution to 94 parts water).

TO ACTIVATE *SELECTROCIDE®* G-SERIES PRODUCTS DIRECTLY TO 30 PPM INSIDE A CLOSED CONTAINER:

Immerse the <i>Selectroicide®</i> 5G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectroicide®</i> 10G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectroicide®</i> 12G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.	Immerse the <i>Selectroicide®</i> 15G in this amount of clean, potable water for at least ten (10) hours; remove within 48 hrs.
167 liters (44 gallons)	333 liters (88 gallons)	400 liters (105 gallons)	500 liters (132 gallons)

4. To apply: rinse interior and exterior surfaces with the 30 ppm solutions by spraying, sponging, swabbing, or swirling, or immersing in a manner that ensures the target surfaces become visibly wet, for a contact time of 30 seconds (including drying time). (If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide).
5. Allow to drain dry.

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ANTIMICROBIAL AND GENERAL CLEANING USES FOR NON-POTABLE WATER APPLICATIONS INVOLVING RECIRCULATING WATER SYSTEMS (E.G., COOLING TOWERS, PAPER MILLS, AND DECORATIVE OR ORNAMENTAL FOUNTAINS)

This product will help remove, control and inhibit reemergence of slimes, algae, fungi, and other organic buildups in recirculating cooling water systems, including cooling towers and decorative or ornamental fountains. It can be used as a periodic treatment or during continuous operations in antimicrobial applications involving algae, fungi or bacteria.

1. Activate *Selectroicide*®[5G, 10G, 12G, 15G, 12G MultiPack-15] according to “Directions for Use” on package label.
2. Prepare a 500 ppm solution of activated *Selectroicide*®[5G, 10G, 12G, 15G, 12G MultiPack-15] in accordance with label instructions.
3. Where possible, pre-clean surfaces prior to application. Flush tanks or water system with clean water.
4. Apply/add the 500-ppm solution to the tank water or water stream at a point in the system or in a manner which minimizes turbulence and exposure to the air.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS, WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS

6. For each 1,000 gallons of cooling or fountain water add 10 gallons of the 500 ppm solution to achieve a 5 ppm residual chlorine dioxide level. Circulate water in normal operation of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro*®*Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration is below 5 ppm, add additional 500 ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
8. Repeat daily until desired results are achieved.

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

6. For each 1,000 gallons of cooling or fountain water add 1 gallon of the 500 ppm solution to achieve approximately 0.5 ppm residual chlorine dioxide concentration. Circulate water in normal operation of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro*®*Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration falls below 0.1 ppm, add more 500 ppm solution (about 1 gallon of the 500 ppm solution for each 1,000 gallons of cooling or fountain water) to increase the residual chlorine dioxide concentration to about 0.5 ppm. Verify concentration with *Test Strips*.

INSTRUCTIONS WHEN USING A DOSING PUMP AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS, WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS

6. For each 1,000 gallons of cooling or fountain water set the dosing pump to run a sufficient time to deliver approximately 10 gallons of the 500 ppm solution to the system.

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7. Check residual chlorine dioxide concentration using *Selective Micro®Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration is below 5 ppm, add additional 500 ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
8. Repeat daily until desired results are achieved.

INSTRUCTIONS WHEN USING A DOSING PUMP FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR FUNGI

6. Set the dosing pump to achieve a continuous concentration of chlorine dioxide between 0.25 ppm and 0.5 ppm. In order to maintain this concentration and the appropriate dosing, consider the volume of water in the system, half-life (makeup/blowdown rate), evaporative rate and windage loss of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro®Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration falls below 0.25 ppm, increase the dosage rate.

FOR PERIODIC TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR FUNGI

6. For each 1,000 gallons of cooling or fountain water add 1 gallon of the 500 ppm solution to achieve approximately 0.5 ppm residual chlorine dioxide concentration. Circulate water in normal operation of the system. Check residual chlorine dioxide concentration using *Selective Micro®Chlorine Dioxide Test Strips*.
7. Repeat weekly or on first indications of increased slime, algae or fungi.

DISINFECTION, SANITIZING, ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR WINERIES

This product will disinfect, sanitize, and clean winemaking equipment and environmental surfaces in wineries. It is effective against microbes and spoilage organisms on all non-porous surfaces including: picking bins, crushers, transfer lines/hoses/pipes, tanks, drains, pumps, presses, de-stemmers, sealed concrete floors and walls, steel cutting boards/surfaces, sumps, valves and tri-clover fittings, pruning shears, and steel wine barrels.

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| <p>NOTE: 1. For additional information on label applications or to discuss other winery-specific application issues, contact Selective Micro Technologies' service personnel.</p> <p>2. This product does not produce Trichloroanisol (TCA) or precursor Trichlorophenol (TCP) by chemical reaction in red wine or in cooperage oak, and therefore does not contribute to the off odors associated with the former.</p> |
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A. Disinfecting and sanitizing applications for winery equipment and environmental surfaces (including all non-porous materials and surfaces, such as transfer hoses and pipes, and other items listed above):

1. Activate *Selectrocide®5G* [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on package label.

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2. Disinfecting Applications. For disinfecting applications, prepare a 100 ppm solution of activated *Selectrocide*®5G [10G, 12G, 15G] directly in accordance with instructions above OR prepare a 500 ppm solution of *Selectrocide*®5G [10G, 12G, 15G, 12G MultiPack-15] and use a 1:5 dilution device (one part 500 ppm solution to 4 parts water).
Sanitizing Applications on hard, food-contact surfaces. For sanitizing applications on hard, food-contact surfaces, prepare a 5 ppm solution of activated *Selectrocide*®5G [10G, 12G, 15G] directly in accordance with instructions above OR prepare a 500 ppm solution of *Selectrocide*®5G [10G, 12G, 15G, 12G MultiPack-15] and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
Sanitizing Applications on hard, non-food-contact surfaces. For sanitizing applications on hard, non-food-contact surfaces, prepare a 20 ppm solution of activated *Selectrocide*®5G [10G, 12G, 15G] directly in accordance with instructions above OR prepare a 500 ppm solution of *Selectrocide*®5G [10G, 12G, 15G, 12G MultiPack-15] and use a 1:25 dilution device (one part 500 ppm solution to 24 parts water).
3. Apply to target surfaces with mop, sponge, or spray **OR** fill, flush, immerse or circulate in tanks, lines and equipment, ensuring surfaces remain visibly wet for the following contact times:

— Disinfection (100 ppm):	10 minutes
— Sanitizing hard food-contact surfaces (5 ppm):	1 minute
— Sanitizing hard non-food contact surfaces (20 ppm):	5 minutes
4. Dispose of package and spent envelope according to instructions on package label.

B. For sanitizing and cleaning tanks and associated connections, pipes, and hoses:

1. Activate *Selectrocide*®5G [10G, 12G, 15G, 12G MultiPack-15] according to "Directions for Use" on product label.
2. Place the tank washer in the middle of the tank with the attached hose extending through the racking door. Cover door with plastic tarp.
3. Place all rubber gaskets inside the tank and leave bottom valve open to drain into tub.
NOTE: Ensure man-door on top of tank is closed and bolted.
4. Place 50 gallons of warm (not hotter than 160°F) water into the sump. To water, add:
 - For tanks not heavily soiled: Add one scoop (about 2 pounds) of caustic (e.g., 270 Xtra)
 - For heavily soiled tanks: Add one scoop (about 2 pounds) of more aggressive caustic (e.g., 231 Xtra)
5. Turn on the pump and start the tank washer, running solution of caustic for about 20 minutes.
6. Check the inside surfaces of tank visually to ensure they are clean; if not, repeat steps 4-5.
7. Rinse the tank with cold water for 5 minutes.
8. Fill the tub with 50 gallons of warm (100°F or lower) water, and add one scoop (about 2 pounds) of citric acid to tub.
9. Add 2 liters of *Selectrocide*® stock solution (500 ppm) to achieve a 5 ppm concentration in tank.
10. Start the pump and tank washer, and run citric solution for 20 minutes.
11. After 20 minutes, use Selective Micro®Chlorine Dioxide Test Strips to determine concentration of chlorine dioxide. Discard solution if strips indicate less than 5 ppm. (If strips register 5 ppm, then solution can be reused to sanitize another tank.)
12. Drain tank of citric solution, and rinse with cold water for 5 minutes.
11. Restore system to the operating mode.
12. Dispose of package and spent envelope according to instructions on package label.

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