



FIRST
PLACE
FINISH
CAR CARE SYSTEM

TRANSFORM

DISINFECTANT

TECHNICAL BULLETIN

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

EPA Registration No. 74986-4

EPA Establishment No. 071441-OH-004

**Activate 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 100 ppm. Shake pouch gently before use.**

**Storage: Store unused solution according to “Directions for Use” on pouch label.
Transfer unused solution from pouch to approved storage container within 48 hours of
activation. After use, dispose of pouches according to disposal instructions on pouch label.**

The information and instructions in this Technical Bulletin should not be confused with
nor followed in violation of applicable laws, regulations, rules, or insurance requirements.

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*Manufactured Exclusively for: MetroTech Automotive
2101 Wilkinson Blvd. Charlotte, NC (704) 525-3600*

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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. if OSHA inhalation exposure limits are reached or exceeded (see MSDS).
4. Do not use product in a manner inconsistent with the label.

1. Check expiration date on *Test Strips* container. If expired, then recheck using a 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) [Transform Disinfectant]. 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 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 (MRSA)</i>	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis (VRE)</i>	ATCC 51299
<i>Candida albicans</i>	ATCC 10231
<i>Trichophyton mentagrophytes</i>	ATCC 9533
<i>Listeria monocytogenes</i>	ATCC 19111

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 (MRSA)</i>	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis (VRE)</i>	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 (MDRS)</i>	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 [Transform Disinfectant] pouch 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 [Transform Disinfectant] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least one minute. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of pouch according to instructions on pouch label.

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

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

1. Activate [Transform Disinfectant] 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 [Transform Disinfectant] pouch with a [1:5] dilution device (one part activated solution to [4] parts water).
4. To apply: spray, mop or sponge the 20 ppm solution onto the surfaces to be sanitized, ensuring the target surfaces remain visibly wet for at least five minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surfaces.
6. Dispose of pouch according to instructions on pouch label.

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B. DISINFECTANT

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

1. [Activate [Transform Disinfectant] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]
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.]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After disinfecting allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
7. Dispose of pouch according to instructions on pouch label.

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

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body or (2) 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 [Transform Disinfectant] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
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.]
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 [Transform Disinfectant] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.

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3. [Prepare a 100 ppm solution in accordance with instructions above.
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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