# Notice of Pesticide Registration

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

**EPA Reg. Number:** 91399-2  
**Date of Issuance:** 3/23/16

**Term of Issuance:** Conditional

**Name of Pesticide Product:** BIOTAB7

**Name and Address of Registrant (include ZIP Code):**  
Jacqueline Kemper  
Director of Operations  
Advanced Biocide Technologies Inc.  
1250 Wallace Dr. Suite C  
Delray Beach, FL 33444

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

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

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

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

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

2. You are required to comply with the data requirements described in the DCI identified below:
   a. Sodium Chlorite GDCI-020502-29789

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

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**Signature of Approving Official:**  
Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  

**Date:** 3/23/16

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EPA Form 8570-6

Registration Notice Conditional v.20150320
3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

4. Make the following label changes before you release the product for shipment:

   - Revise the EPA Registration Number to read, “EPA Reg. No. 91399-2.”

5. Submit one copy of the revised final printed label for the record before you release the product for shipment.

   Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

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

    - Basic CSF dated 10/23/2015

If you have any questions, please contact Srinivas Gowda by phone at (703) 308-6354 or via e-mail at gowda.srinivas@epa.gov

Sincerely,

Demson Fuller
Product Manager – Team 32
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: EPA Stamped Label

Enclosure
[Master Label]
BIOTAB7

{Alternate Brand Names: Meditab5, Dtab8, Advanced Biocide X, ABX, ABX³}

Disinfectant Cleaner and Deodorant

[Biotab7 meets efficacy standards for hospital grade disinfectant on hard non-porous surfaces using the AOAC Use- Dilution Test Methods with 500 ppm Chlorine Dioxide in 400 ppm hard water and supplemented with 5% soil load.]

[Disinfectant, Deodorant, Slimicide, Cleaner]
[All-In-One, Multi-Surface, One-Step, Bactericidal, Odor Counteractant, Odor Neutralizer]
[For Commercial, Hospital, Industrial and Institutional Use]
[Restroom, Bathroom, Hospital Disinfectant Cleaner, Multi-Surface Disinfectant Cleaner, Cleans All Hard, Non-Porous Water Washable Surfaces]

Active Ingredient:
Sodium chlorite:..........................20%
Other Ingredients:.........................80%
Total........................................100%

KEEP OUT OF REACH OF CHILDREN
DANGER

[See back/side panel for additional precautionary statements]

To be used for generation of Advanced Biocide Technologies Chlorine Dioxide.
Prepare with tap water by label instructions and dosing chart.

<table>
<thead>
<tr>
<th>FIRST AID</th>
</tr>
</thead>
</table>
| **If in Eyes**   | • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.  
|                   | • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
|                   | • Call a poison control center or doctor for treatment advice. |
| **If on Skin or Clothing** | • Take off contaminated clothing.  
|                   | • Rinse skin immediately with plenty of water for 15 – 20 minutes.  
|                   | • Call a poison control center or doctor for treatment advice. |
| **If Inhaled**   | • Move person to open, fresh air.  
|                   | • If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth to mouth.  
|                   | • Call a poison control center or doctor immediately for treatment advice. |
| **If Swallowed** | • 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.  
|                   | • Call a poison control center or doctor immediately for treatment advice. |

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

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

Hazards to Humans and Domestic Animals: DANGER: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Do not get in eyes, on skin, or on clothing. Wear chemical splash-proof face shield or goggles and rubber gloves when handling this product. Wear coveralls worn over long-sleeved shirt and long pants. Wear a NIOSH/HMSA approved respirator appropriate for chlorine dioxide when using a high pressure sprayer. Open in a well-ventilated area. Avoid breathing vapors. Vacate poorly ventilated area as soon as possible. Do not return until strong odors have dissipated. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Handlers applying chlorine dioxide in an occupational setting must wear gloves.

PHYSICAL OR CHEMICAL HAZARDS: OXIDIZER. Product contains a strong oxidizer. Always flush drains before and after use. Mix only with water according to label directions. Extended contact with metals may cause discoloration or pitting.

Do not mix with vinegar, hydrochloric, nitric or acetic acid or other cleaning agents.

[For containers greater than 5 gallons]

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

[For containers less than or equal to 5 gallons]
STORAGE AND DISPOSAL
Do not contaminate food or feed by storage or disposal.

STORAGE: Store away from children and away from food or feed. Keep tightly closed until ready to use. This product has a minimum shelf life of 12 months after date of shipment. Reclose package tightly after use. Store product in original, unopened containers at or below 25 °C (77°F). Keep away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.
Pesticide disposal: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.
CONTAINER HANDLING: Non-refillable container. Do not reuse or refill container. Offer for recycling if available or reconditioning if appropriate or place in trash.
ALUMINUM AND PLASTIC BAG HANDLING: Do not reuse containers. Completely empty container and discard.

Warranty: Seller expressly warrants the product conforms to its chemical description. There are no warranties associated with the sale of the product either express or implied, including but not limited to the warranties of fitness for a particular purpose or use.

Certified to NSF/ANSI Standard 60 for Drinking Water. Max use level: 4 ppm. (solute)

NOTE: For use in institutional or commercial applications. Not for residential use.

Biotab7 has been tested and validated by an independent lab, assuring it provides the purest quality chlorine dioxide.

It is recommended, if user is not sure of chlorine dioxide levels, the use of a chlorine dioxide test kit such as Hach Colorimeter II or similar testing device.

[Biotab7 is a [patent pending] [patented] chlorine dioxide formula. It controls microbial contamination in animal research facilities, food processing, industrial waters, pulp and papermaking process water and cutting oils. Disinfects surfaces in hospitals, institutions, industrial and commercial industries. Not for food-contact use.]

[Efficacy of Biotab7 depends on degree of activation. The tablets must be fully activated with water. Read instructions carefully prior to use.]

[Biotab7 provides disinfection and cleaning in economical tablet[s].]

[Biotab7 can be used to treat hard, non-porous, food contact surfaces in hospitals, medical and dental offices; food, dairy, poultry farm, mushroom production, animal research, agricultural storage (including containers, trailers, rail cars, vessels and bins), animal confinement and rearing, animal handling, livestock, hatcheries, institutional and public facilities; bottling, brewery, meat-packing, egg not for food use, poultry not for food use and fish-processing plants, food storage areas, institutional kitchens, animal transport vehicles and equipment, hotels, business and office buildings.]

[Biotab7 is an effective treatment against the following at 1 ppm – 5000 ppm activated tablet solution when used as directed.]

For all applications, directly apply by mop, sponge, spraying device (apparatus), ensuring visible application for time specified or apply through immersion or clean-in-place application. Add Tablets to tap water only.

The product label must be in possession of the user at the time of application. Read the label before using this product.
Use of Product according to its labeling is subject to the use precautions and limitations imposed by the label affixed to the Biotab7 container.

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 bloodstream 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 preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

DIRECTIONS FOR USE

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

[See Insert for Directions for Use]

TO CLEAN AND DEODORIZE HARD, NON-POROUS SURFACES

For visibly soiled including heavily soiled surfaces
Remove gross filth and other debris by mechanical means. Thoroughly brush and clean using prepared chlorine dioxide solution or other cleaning solution then rinse with potable water.

DISINFECTION

Biotab7 meets efficacy standards for hospital grade disinfectant on hard non-porous surfaces using the AOAC Use- Dilution Test Methods with 500 ppm Chlorine Dioxide in 400 ppm hard water and supplemented with 5% soil load.

When used as directed, Biotab7 is proven effective as a disinfectant against *Staphylococcus aureus* ATCC 6538 [*S. aureus*], *Salmonella enterica* ATCC 10708 [*S. enterica*], *Pseudomonas aeruginosa* ATCC 15442 [*P. aeruginosa*], *Enterococcus faecalis* [*E. faecalis*] ATCC 51299 [VRE], *Escherichia coli* ATCC BAA-2469 [CRE], Feline calicivirus, Strain F-9 ATCC VR-782 [Norovirus], Methicillin Resistant *Staphylococcus aureus* ATCC 33591 [MRSA], and *Listeria monocytogenes* ATCC 49594 [*L. monocytogenes*] on hard, non-porous surfaces. Kills odor-causing bacteria, mold and mildew.

Product has a linear concentration, independent from volume of water or target PPM. We recommend you wait 10 minutes to reach full concentration.

Dosing table provides a few ways target PPM can be reached. Individual solutions will be provided to meet your specific needs.
**Use at specified concentration for directed time**

<table>
<thead>
<tr>
<th>Amount of Water</th>
<th>To Achieve Use Concentration (PPM):</th>
<th>Number of 1 gram Tablets</th>
<th>Number of 6 gram Tablets</th>
<th>Number of 20 gram Tablets</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 Gallons</td>
<td>1 ppm</td>
<td>Not Recommended</td>
<td>Not Recommended</td>
<td>11</td>
</tr>
<tr>
<td>50 Gallons</td>
<td>5 ppm</td>
<td>11</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>10 Gallons</td>
<td>20 ppm</td>
<td>9</td>
<td>2</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>100 Gallons</td>
<td>100 ppm</td>
<td>Not Recommended</td>
<td>72</td>
<td>22</td>
</tr>
<tr>
<td>10 Gallons</td>
<td>250 ppm</td>
<td>Not Recommended</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>50 Gallons</td>
<td>300 ppm</td>
<td>Not Recommended</td>
<td>108</td>
<td>33</td>
</tr>
<tr>
<td>10 Gallons</td>
<td>500 ppm</td>
<td>Not Recommended</td>
<td>36</td>
<td>11</td>
</tr>
<tr>
<td>10 Gallons</td>
<td>1000 ppm</td>
<td>Not Recommended</td>
<td>72</td>
<td>22</td>
</tr>
<tr>
<td>500 Gallons</td>
<td>5000 ppm</td>
<td>Not Recommended</td>
<td>Not Recommended</td>
<td>5,374</td>
</tr>
</tbody>
</table>

**Mixing Instructions for [Advanced Biocide chlorine dioxide solution] [Biotab7]**

- **General Safety Guidelines:**
  - Read Advanced Biocide MSDS Guidelines first
  - Always be aware of ClO2 fumes during mixing
  - Use safety gear (respirator, goggles and gloves)
  - Maintain ventilation in room during preparation and storage
  - Do not inhale above open containers
  - Close container quick and tightly and store in cool, dark and well ventilated room
  - Ask your supplier before opening packaging for dosage

**Follow steps to prepare solution**

- Tablets and liquid solution must be handled with care and all procedures must be followed according to the product label and the MSDS.

1. Fill an opaque spray bottle with exactly the specified amount of tap water
2. ALWAYS Add Tablet to Water. Do Not add water to tablets. Tablet => Water
3. Slowly add the correct number of tablets to the required amount of water.
4. Wait 10 minutes
5. Stir Gently
6. Product is ready to use. Refer to application use directions.
Mixing Instructions for [Advanced Biocide chlorine dioxide solution] [Biotab7]  

General Safety Guidelines:  
Read Advanced Biocide MSDS Guidelines first  
Always be aware of ClO2 fumes during mixing  
Use safety gear (respirator, goggles and gloves)  
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Do not inhale above open containers  
Close container quick and tightly and store in cool, dark and well ventilated room  
Ask your supplier before opening packaging for dosage  

Follow steps to prepare solution  
Tablets and liquid solution must be handled with care and all procedures must be followed according to the product label and the MSDS.6  

1. Fill an opaque spray bottle with exactly the specified amount of tap water  
2. ALWAYS add Tablet to Water. Do Not add water to tablets. **Tablet => Water**  
3. Slowly add the correct number of tablets to the required amount of water in the container  
4. Wait 10 minutes  
5. Stir Gently  
6. Product is ready to use  
7. Discard unused product after 8 hours  

### COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL PREMISES AND EQUIPMENT  

**MEDICAL DISINFECTANT and BROAD SPECTRUM DISINFECTANT**  
**FOR HOSPITAL, HEALTH CARE FACILITY DISINFECTION**  
Biotab7 is a one-step [hospital-use] germicidal [disinfectant] cleaner and deodorant [odor-counteractant] [odor neutralizer] designed for cleaning, [and] disinfecting, [deodorizing] [of] hard, non-porous environmental surfaces. Biotab7 cleans quickly by removing dirt, grime, body, oils, dead skin, blood and other organic matter commonly found in hospitals [acute] [and] [long-term] care facilities [and] [in health care facilities] [on medical surfaces]. It [also] eliminates odors, leaving [restroom] surfaces smelling clean and fresh. Use where odors are a problem. Product cleans, disinfects and deodorizes [hard, non-porous, food contact environment hospital [medical] surfaces] in one step [with no rinsing required]. Its non-abrasive formula is designed for use [daily] on [the following] hard, non-porous environmental surfaces and any washable surface [where disinfection is required][.] [.] {List surfaces from Use Site Index}  
Prepare according to use directions for Medical and Broad Spectrum Disinfection at 500 ppm for 5 minutes contact time or keep surfaces wet for at least 5 minutes.  

### HEALTH-CARE and VETERINARY FACILITIES
Use Biotab7 to disinfect surfaces and instruments in hospitals, medical and dental offices, veterinary offices, veterinary clinics, veterinary hospitals and related facilities. Apply solution to hard, non-porous surfaces and/or instruments thoroughly wetting surfaces with a cloth, mop, sponge or sprayer or by immersion. Allow to air dry. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface and spray until totally wet. Do not breathe spray. Allow to air dry. Prepare according to use directions for Medical and Broad Spectrum Disinfection at 500 ppm for 5 minute contact time.

**DISINFECTANT FOR HARD, NON-POREUS, NON-FOOD SURFACES**

Product may be used to disinfect hard surfaces in hotels, offices, ships, hospitals, schools, factories, nurseries, sick rooms, laundry rooms, eating establishments, medical, veterinary clinics or any other location that may be contaminated. Product may be used to disinfect non-food contact surfaces at 500 ppm for 5 minutes against *Staphylococcus aureus*. Solution may be applied to non-food contact surfaces, to include but not be limited to walls, furniture, floors, and equipment. Prepare according to use directions for Medical and Broad Spectrum Disinfection at 500 ppm for 5 minute contact time.

**DISINFECTION OF BENCH TOPS, BIOLOGICIAL HOODS, INCUBATORS, STAINLESS STEEL EQUIPMENT AND INSTRUMENTS**

Product may be used to disinfect bench tops, biological hoods, incubators, stainless steel equipment and instruments. Remove gross filth prior to disinfection. Prepare according to use directions at 500 ppm and squirt onto surfaces with squeeze bottle. Surfaces should remain wet for 5 minute contact time.

**ODOR**

Biotab7 eliminates and destroys odors and odor-causing bacteria in hospitals, restaurants, and hotel rooms (and other places where bacterial growth can cause malodors), (when used as directed). Prepare according to use directions at 500 ppm and apply to area with sprayer until covered with mist and let stand for 5 minute contact time.

**DEODORIZE ANIMAL HOLDING ROOMS, SICK ROOMS, MORGUES, AND WORK ROOMS**

Prior to treatment, rooms to deodorize should be in a clean condition. Prepare solution according to use directions to 500 ppm. To apply, spray solution using a suitable spraying device onto walls, ceilings, and floor, lightly dampening all surfaces. Avoid breathing mist of solution by using approved respirator for Chlorine Dioxide. Allow to air dry, then ventilate area. Reapply as required.

**AGRICULTURAL PREMISES AND EQUIPMENT**

**FARM EQUIPMENT AND ANIMAL HOUSING BUILDINGS [POULTRY & TURKEY GROW-OUT HOUSES, SWINE PRODUCTION AND HOUSING, BARNS AND LARGE ANIMAL BUILDINGS]**

Product cleans by removing dirt, grime, and other common soils found in animal housing facilities, livestock, and swine or poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh. This product cleans, disinfects and deodorizes (hard, non-porous environmental surfaces) in one step visibly clean hard non porous surfaces. Its non-abrasive formula is designed for use on (Use daily on) (Use daily to clean and disinfect) hard, non-porous surfaces found in (barns, pens and stalls) animal housing facilities.

For disinfection of hard, non-porous surfaces. Follow disinfection procedure for stainless, galvanized and painted steel, copper, aluminum, finished wood, vinyl, plastics, glazed tiles, sealed brick walls, sandwich panels and feeding/drinking equipment:

A. Remove all animals and feed from areas being treated.
B. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
C. Empty all troughs, racks, and other feeding and watering appliances.
D. Pre-clean visibly soiled surfaces.
E. Saturate all surfaces with disinfecting solution by using spray, mop, or sponge. Surfaces must remain wet for 5 minutes.
F. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed or dried.

G. Immerse clean forks, shovels, and scrapers used for removing litter and manure in the disinfecting solution for 5 minutes. Allow to air dry.

H. Dispose of unused solution after 8 hours.

I. Avoid direct food contact

J. Prepare according to use directions at 1000 ppm for 5 minute contact time.

CONTROL ODOR AND SLIME FORMING BACTERIA IN ANIMAL CONFINEMENT FACILITY
To treat animal confinement facilities: Remove all litter and manure from premises and thoroughly clean all surfaces with cleaner. Rinse with clean water. Prepare solution according to use directions at 500 ppm. Use commercial sprayer to saturate all surfaces with Biotab7.

FOAM SOLUTION
Use Biotab7 to eliminate odors on surfaces in dark damp areas. Prepare according to use directions at 500 ppm for 10 minutes contact time.

CLEANING AND DISINFECTION OF POULTRY DRINKING WATER
Prepare Biotab7 solution. Stage 1: Depending on the age and maintenance history of the pipe network, this stage requires from 1 to several weeks to fully break down the debris layer in the pipe infrastructure. Start with a concentration of 20 ppm at the dosing point. Minimal product will be detected at the drinking-end of the system during this phase as the product is used to wash off and oxidize debris on the surface. Older systems may require a longer period of exposure to the initial concentration to remove the build-up. Stage 2: After initial cleaning, the debris structure is weakened sufficiently to allow a lower dose of 5 ppm. Residual disinfection by products must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards.

This product may be used at a concentration of 5 ppm to control microorganisms in drinking water intended for poultry. Dilute to 5 ppm or use directly in system with automatic, on-demand injection system. Note: application specifics may vary subject to metering system, frequency of replenishment, and the overall capacity of drinking container. Prepare according to use directions at 20 ppm for Stage 1 and to 5 ppm for Stage 2.

FOR USE IN INCUBATOR HUMIDIFICATION SYSTEMS
Prepare Biotab7 solution and inject into humidification water supply. Prepare according to use directions at 300 ppm.

FARM WATER TREATMENT
Product can be used for continuous in-line water dosing. Use a dosing pump to deliver product at a rate of 5 ppm. Residual disinfectant and disinfection by products must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards. Prepare according to use directions at 5 ppm

TRANSPORTATION, LOADING AND HAULING EQUIPMENT
Shipping containers, railroad cars, railroad tanks, cars, trucks, truck trailers, loading chutes, reusable crates and other equipment for transportation of animals, produce, vegetables, should be cleaned and disinfected prior to use. Do not mix product with acid cleaners. Pressure spray or scrub with solution. Treat all exposed areas. Prepare according to use directions at 500 ppm for 5 minute contact time.

HORTICULTURE

AGRICULTURAL IRRIGATION SYSTEMS AND CUT FLOWERS
This product may be used on hard, non-porous surfaces; to treat, control rusts and leaf spot; and to remove slimes and inhibit re-emergence in irrigation and other non-potable water systems. Can be used on flooded floors, flooded benches, recycled water systems, humidification and misting systems. Product may minimize microbial transfer from water to flower, maintaining freshness and extending
shelf-life of cut flowers. Prepare according to use directions at 300 ppm.

Pots and Flats: Apply Biotab7 to used planting devices such as pots and flats. Remove all loose soil and plant residue prior to application. Soak pots and flats in 500 ppm solution for 10 minute contact time.

Cutting tools: Soak cutting tools in a solution of 500 ppm, allow tools to remain wet for best results. At end of work period, dry and oil tools.

Bulbs: Biotab7 can be used to treat spoilage causing bacteria of bulbs. Prepare product solution at 500 ppm, Soak cleaned bulbs for 10 minutes, remove and allow to dry before storage.

Evaporative Coolers: Prepare according to use directions at 250 ppm. Allow to circulate throughout cooling pads and catch basins. Add to evaporative cooler water and repeat as needed every 14 days.

Retention Basins and Ponds: Use at a concentration of 2-5 ppm. Repeat applications weekly for best results. Do not use where fish are present.

Decorative Pools, Fountains, and Water Displays: Prepare according to use directions and add to water to achieve a level of 5 – 10 ppm. Do not use when fish are present.

NEMATODE WORM ERADICATION
To attack the nematode worm, prepare product for use in the Nematode Contaminated Water (NCW). Filtration: The NCW treated with the product should be filtered with gravel filtration or sand filtration to remove the Nematode bodies. This is process is important so as to remove the nutrition to potentially subsequent micro-organisms. Prepare according to use directions at 5 ppm for 4 hours contact time.

POTATO FACILITIES
Biotab7 can be used in Potato facilities. For walls, ceilings, floors, planting and harvesting equipment and truck beds, spray a solution of 100 ppm for 10 minute contact time. To use in Potato rinse tanks, flumes and lines, use a chemical feed pump or injector system and apply solution according to use directions at 5 ppm.

CLEANING AND DISINFECTION DAIRY EQUIPMENT
Biotab7 is effective as a disinfectant and deodorizer of hard surface dairy industry equipment. Normal operating temperatures are +/- 75 F. Milk deposits and other debris should be removed by mechanical means prior to disinfection with product solution. Do not mix product with acid cleaners. Rinse with potable water. Prepare according to use directions at 500 ppm for 5 minute contact time.

DISINFECTION OF WATERLINES
Product may be used to disinfect lines used in fountain drink or other beverage preparation, storage, transfer and dispensing. Rinse disinfected lines with potable water until chlorine dioxide residual has gone below 1.0 mg/L as determined by an appropriate testing method in accordance with 21CFR§173.300. Avoid direct food contact. Prepare according to use directions at 500 ppm for 5 minutes.

FOOD CONTACT SURFACE CLEANER AND DISINFECTANT (Poultry, Meat, Fish, Hard Surfaces)
Use as a terminal rinse for stainless steel, and other non-porous food contact surfaces including tanks, transfer lines, Clean In Place (CIP) systems and other food processing equipment. Remove all gross food particles and soil prior to cleaning by use of pre-flush, pre-scrape or pre-soak treatment. Clean tank, line or surface thoroughly using suitable cleaner and rinse with potable water before use. Prepare Biotab7 solution according to use directions at 100 ppm. To treat: Fill, flush, immerse or spray tank, line, equipment or food contact surface with solution. Leave surface wet for at least 1 minute. After cleaning, drain and allow to dry. Do not reuse solution if it becomes soiled, diluted or after 8 hours.

FRUIT AND VEGETABLE RINSE
Before treatment, whole, uncut fruits and vegetables should be pre-washed and rinsed with clean potable water. Prepare Biotab7 solution according to use directions at 5 ppm. Immerse produce in solution for 10 – 20 seconds and rinse with clean potable water.
HUMAN WATER SYSTEMS

MUNICIPAL WELL WATER
To treat municipal well waters, prepare solution according to use directions to achieve 1 ppm using a metering pump, or injector system. Residual disinfectant and disinfection by products must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards.

WELL WATER TREATMENT
Flush the well casing with Biotab7 to wash off debris. Back wash the well to increase yield and reduce turbidity. Use a solution of 20 ppm as the backwash. After treating the casing and completing the backwash add product solution to at 5 ppm. Use a chlorine dioxide test kit to monitor the residual level. Re-treat well if water samples are becoming biologically unacceptable. Residual disinfectant and disinfection by products must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards. Prepare according to use directions at 20 ppm for backwash and 5 ppm thereafter.

SWIMMING POOLS

DISINFECTION OF FILTERS AND PIPES IN SWIMMING AND WADING POOLS
Disinfect filters and pipes in swimming pool. Prepare Use Biotab7 according to use directions at 500 ppm for 5 minute contact time to disinfect filters. Soak in water with product. Prepare according to use directions at 500 ppm for 5 minutes contact time.

RESIDENTIAL AND PUBLIC ACCESS

RESTROOMS/BATHROOMS, REFUSE CONTAINERS, DIAPER PAILS, STORAGE LOCKERS FOR DEODORIZING
To use Biotab7, Remove gross filth prior to treatment Drain. Prepare according to use directions at 250 ppm and apply with sprayer until covered with mist and let stand for 5 minute contact time. Air dry. Repeat as necessary.

PET LITTER BOXES, CARPETs, AND CONCRETE FLOORS FOR DEODORIZING
To use Biotab7, prepare solution according to use directions and apply by soak, rinse or mop.

For litter boxes: Wash out litter box with suitable detergent and rinse with clean potable water. Soak overnight in a solution of 650 ppm.

For use on carpets: Prepare a solution of 500 ppm and add to rug shampoo mix. Allow to air dry. Do not apply until a sample test has been tried and observed for at least 24 hours. The manufacturer accepts no liability for carpet or fabric bleaching.

For use on concrete floors: Clean floor thoroughly using suitable detergent, rinse with clean water. Prepare a solution of 1,250 ppm and apply. Mop or spray solution liberally onto floor. Allow to air dry.

For animal baths: Wash animal well with appropriate pet shampoo, rinse with clean water. Prepare a solution of 100 ppm and rinse animal thoroughly. Allow to air dry. Avoid direct contact with animal’s eyes, nose and ears.

INDUSTRIAL PROCESSES AND WATER SYSTEMS

INDUSTRIAL COOLING TOWER WATER
This product will help control, inhibit or remove slime forming bacteria, in recirculating water systems. For
use as initial or remedial treatment in cases of significant build-up. Repeat daily until desired results are achieved. Circulate water in normal system operation. Prepare according to use directions at 100 ppm.
For once through water cooling systems: Prepare a solution according to use directions and apply with appropriate method.
Slug dose: Prepare solution at 20 ppm.
Continuous dose: Prepare solution at 1 ppm.

DIRECTION TO FLUSH WATER DISTRIBUTION SYSTEMS
Flush the water distribution system with product to wash off debris. Back wash the water distribution system to increase yield and reduce turbidity. Use solution as the backwash. Prepare according to use directions at 250 ppm for 10 minutes contact time.

CAR, TRAIN AND TRUCK WASH WATER USED AT COMMERCIAL CAR WASHES
Biotab7 is effective as a disinfectant for odor control of waste water commonly used at commercial car wash operations and at facilities engaged in washing trucks, trains, boats and RV’s. Waste water is commonly used as the wash water. Waste water facilitates odors and increased disposal costs. Product will eliminate both aerobic and anaerobic bacteria. Prepare according to use directions at 500 ppm for 5 minute contact time.

WATER BASED CUTTING FLUID/OILS
Biotab7 will help control bacterial slime, odor causing bacteria and to reduce microbiological growth in water-based cutting oils. For batch treatment, prepare solution according to use directions to achieve 2 ppm ClO2 and add to a fresh system. Repeat weekly or on first indication of increased bacterial slime contamination (odor, slime or bacterial count). For continuous treatment, prepare solution according to use directions to achieve 1 ppm ClO2 and add to the system. For badly contamination systems, slug-dose system with solution prepared according to use directions to achieve 20 ppm ClO2. After 12 hours, start with the continuous procedure described above.

PULP AND PAPER MILLS
Biotab7 is effective in controlling - slime forming bacteria within paper mill process water. Dose varies with the degree of microbiological and process contamination measured. Depending on the specific requirements of the system, apply product continuously or intermittently to achieve a chlorine dioxide concentration 5 ppm. Repeat intermittent treatments as required to maintain control. Must stay within all local, state and Federal Regulations for discharge. 1 ppm of aliphatic Amines removed for 5.0 ppm of product above a pH of 7.0. Prepare according to use directions at 5 ppm.

OIL & GAS INDUSTRY APPLICATIONS
Product is effective in the elimination of bacterial and sulfide contamination commonly found in down hole wells, oil field production, injection and disposal fluids, separators and pipelines. Eliminates corrosion, slime, odors caused by bacteria such as “iron eating bacteria” and bacteria that cause odor problems associated with hydrogen sulfide gas. The required dosage levels will vary according to site-specific conditions.
The product may be applied intermittently or continuously to oil well production water at the point where it is separated from oil, and prior to re-injection into the well. For continuous feed, oxidation of sulfides to sulfates and for biological control apply product at a dosage level slightly higher than the oxidative demand as determined by a demand study. For intermittent treatment, use a dosage of 5000 ppm. Prepare according to use directions at 5000 ppm.

WASTE WATER TREATMENT
Product is effective as both a disinfectant and an oxidant in wastewater treatment. The required dose varies with water conditions and the degree of contamination present. For most municipal and other wastewater systems, a concentration of 5 ppm is sufficient to provide adequate disinfection. For sulfide odor control, between pH 5-9, a minimum of 5 ppm of product should be applied to oxidize 1 ppm of sulfide (measured as sulfide ion). For phenol destruction, at pH less than 8, 1 ppm product will oxidize 1 ppm phenol; at pH greater than 10, 5 ppm product will oxidize 1 ppm phenol. Prepare according to use directions at 1 - 5 ppm.
DISINFECTION OF STORAGE TANKS AND PIPELINES
After emptying the tank or pipeline, flush with potable warm water. Add product concentrate to the flush water and circulate the flush water through the system for 5 minutes. Use hot water if available, up to 160°F throughout the entire circulation system. Rinse with potable water. Drain. Allow to air dry. Close tanks to protect against contamination. Do not mix product with acid cleaners. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards. Prepare according to use directions at 500 ppm for 5 minute contact time.

EGG HANDLING FOR NON FOOD PURPOSE
For use on eggs for non-food purposes, temperature should not exceed 130°F. To spray product: spray so the eggs are completely wet. Allow to dry completely. Prepare according to use directions at 5 ppm.

CLEANING AND DISINFECTION OF HOT TUBS/SPAS:
Use Biotab7 to clean and disinfect hard non-porous surfaces of hot tubs and spas. While hot tub or spa is empty, apply treatment, then flush system. After system is flushed, rinse with potable water. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards. Prepare according to use directions at 500 ppm for 5 minute contact time to clean and disinfect.

IRON AND MANGANESE REMOVAL
Use the required Biotab7 concentration depending on the measured pH levels and remaining within the limits of all local, state and Federal Regulations for discharge. Precipitate both elements according to the following: inorganic compounds in a soluble state – 1.0 ppm manganese removed for every 2.45 ppm of product above pH 7. 1.0 ppm iron removal for every 1.2 ppm of product above pH 5. Prepare according to use directions at 5 ppm.

PHENOL DESTRUCTION
Must stay within all local, state and Federal Regulations for discharge. 1.0 ppm of phenol removed for 5 ppm of Biotab7 concentration above pH 10 to Benzoquinone. 1.0 ppm of phenol removed for 5 ppm of product below pH 10 to Carboxylic Acids. Prepare product according to instructions depending on the measured pH levels.

CYANIDE DESTRUCTION
Must stay within all local, state and Federal Regulations for discharge. 1.0 ppm of Cyanide Ion removed for 5 ppm Biotab7 concentration below pH 10 to Cyanate. Continuous treatment rate at 1 - 5 ppm. Treat intermittently at a rate of 5 ppm. Dosing is system dependent. Prepare product according to instructions. Prepare correct concentration depending on the measured pH levels.

HYDROGEN SULFIDE SCAVENGING
Biotab7 is an effective scavenger of hydrogen sulfide, when hydrogen sulfide is dissolved in water or in a gaseous state. Product is also a powerful scavenger of inorganic or organic sulfides. Product can be used in low and high temperature applications (max. 160°F). It is non corrosive to equipment and does not form chlorinated hydrocarbons. The dosage rate varies with each location and local criteria. Determining optimum dose levels requires site-specific trials. On average, the optimum dose rate is 5 ppm. Prepare according to use directions at 5 ppm.

NOX REDUCTION AND EMISSION SCRUBBING
NOX is a precursor to ozone in the atmosphere, and believed to be a contributor to acidic deposition (acid rain). NOX is produced in a variety of different processes, including combustion equipment, gas turbines, incinerators, kilns and power plants. Product can be used in a wet removal (stack rubber) process. The use of stoichiometric amounts of chlorine dioxide eliminates approximately 95% of the NO in the gas, in concentrations of 20 ppm for short term. Prepare according to use directions at 20 ppm and apply in the scrubber system water for the specific application.
### GENERAL USE SITES

- airplane(s)
- automobile(s)
- bathroom(s)
- bus(es)
- bowling alleys
- butcher shops
- churches
- changing tables
- colleges/Universities
- correctional facilities
- day care centers
- dormitories
- factories
- funeral homes/mortuaries
- grocery stores
- gymnasiums/gyms
- health club[s] facilities
- hotels
- industrial facilities
- laundromats
- laundry rooms
- locker rooms
- long term care facilities
- manufacturing plants or facilities
- military installations
- motels
- nursing homes
- playpens
- produce areas (non-food contact)
- public areas
- recreational centers
- restrooms/restroom areas
- schools
- shelters
- shower rooms
- storage rooms or areas
- supermarkets
- trains
- To clean any washable surface (where disinfection is required).

For any use site that includes electronics or electronic components [please] refer to manufacturer’s instructions [for appropriate use] [before use.]

### MEDICAL USE SITES

- clinics
- medical Clinics
- acute care facilities
- hard non porous surfaces
- ambulance or [emergency medical] transport vehicles
- anesthesia rooms or areas
- [assisted living or full care] nursing homes
- [bed] head [foot] board
- blood banks
- [blood] [plasma] [semen] [milk] [apheresis]
- donation centers
- bp monitors
- carts
- CAT labs or laboratories
- central service
- central service areas
- central supply rooms or areas
- chemotherapy hoods
- critical care units or CCUs (not for use on medical devices)
- dialysis clinics
- dialysis machines (exterior)
- emergency rooms or ERs (not for use on medical devices)
- glucometer or blood glucose monitors
- health care settings or facilities
- home health care
- hospices
- [hospital] kitchens
- hospitals
- intensive care units or ICUs
- isolation areas
- IV stands
- labs or laboratories
- [Mayo] [instrument] stands
- medical facilities
- medical or physicians or doctors offices
- neonatal intensive care units (NICU) (not for use on medical devices)
- newborn or neonatal nurseries
- nurse call [device] [button] [and cord] nursing or nurses stations
- nursing or rest homes
- operating room[s] or OR[s] (not for use on medical devices)
- patient rooms
- ophthalmic offices
- orthopedics [clinics]
- outpatient clinics
- outpatient surgical centers (OPSC)
- patient care areas
- patient restrooms
- patient rooms
- [pediatric] exam or examination rooms or areas
- pediatric intensive care units (PICU) (not for use on medical devices)
- pharmacies
- physical therapy rooms or areas
- physician offices
- radiology or x ray rooms or areas
- recovery rooms
- rehabilitation
- respiratory therapy rooms or areas
- sill[s] ledge[s]
- surgery rooms or operating rooms or ORs (not for use on medical devices)
- transport vehicles
- [tv] remote[s] [control][s] ultrasound
<table>
<thead>
<tr>
<th>Exam or examination rooms (not for use on medical devices)</th>
<th>Medical AND GENERAL SURFACES</th>
<th>Transducers/ probes</th>
</tr>
</thead>
<tbody>
<tr>
<td>- exam or examination rooms (not for use on medical devices)</td>
<td>- [exam or examination] tables</td>
<td>- hampers</td>
</tr>
<tr>
<td>- [eye] surgical centers</td>
<td>- exterior surfaces of air vents or air vent exteriors</td>
<td>- hand railings</td>
</tr>
<tr>
<td>- transducers/ probes</td>
<td>- external surfaces of [medical] equipment or [medical] equipment surfaces</td>
<td>- headsets</td>
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<tr>
<td></td>
<td>- external surfaces of dialysis machines</td>
<td>- lams</td>
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<td></td>
<td>- external surfaces of respiratory equipment</td>
<td>- linoleum</td>
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<tr>
<td></td>
<td>- external [surfaces of] ultrasound transducers and probes</td>
<td>- other telecommunication] equipment [surfaces playpens</td>
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<tr>
<td></td>
<td>- gurneys</td>
<td>- shelves</td>
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<tr>
<td></td>
<td>- hard nonporous [environmental] hospital or medical surfaces</td>
<td>- shower or shower stalls</td>
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<td></td>
<td>- high touch surfaces</td>
<td>- sinks</td>
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<tr>
<td></td>
<td>- [hospital or patient] bed railings or linings or frames</td>
<td>- doorknobs</td>
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<tr>
<td></td>
<td>- [inner] [inside of] drawers</td>
<td>- stall doors</td>
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<tr>
<td></td>
<td>- IV poles</td>
<td>- tables</td>
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<tr>
<td></td>
<td>- mammography equipment</td>
<td>- [tele]phones</td>
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<tr>
<td></td>
<td>- patient chairs</td>
<td>- [tiled] walls</td>
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<tr>
<td></td>
<td>- phlebotomy trays</td>
<td>- toilet rims</td>
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<tr>
<td></td>
<td>- phone cradle</td>
<td>- toilet seats</td>
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<td></td>
<td>- pipes</td>
<td>- towel dispensers</td>
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<tr>
<td></td>
<td>- [plastic or vinyl] mattress covers</td>
<td>- toys</td>
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<tr>
<td></td>
<td>- reception counters or desks or areas</td>
<td>- vanity tops or vanities</td>
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<td></td>
<td>- shower fixtures</td>
<td>- autoclaves</td>
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<td></td>
<td>- stretchers</td>
<td>- bed pans</td>
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<td></td>
<td>- floors</td>
<td>- bed railing</td>
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<td></td>
<td>- countertops</td>
<td>- behind and under wash basins</td>
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<tr>
<td></td>
<td>- telephones</td>
<td>- blood glucose monitors</td>
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<tr>
<td></td>
<td>- fixtures</td>
<td>- cabinet handles</td>
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<tr>
<td></td>
<td>- glazed tile</td>
<td>- closet handles</td>
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<tr>
<td></td>
<td>- Baked enamel surfaces</td>
<td>- coated mattresses</td>
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<tr>
<td></td>
<td>- hand railings</td>
<td>- coated pillows</td>
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<tr>
<td></td>
<td>- walls</td>
<td>- transducers</td>
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<td></td>
<td>- ceilings</td>
<td>- wheelchairs</td>
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<td></td>
<td>- playpens</td>
<td>- beds</td>
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<td></td>
<td></td>
<td>- [bathroom] fixtures</td>
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<td>- [bed] tubs</td>
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<td>- behind and under counters</td>
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<td>- behind and under sinks</td>
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<td>- booster chairs</td>
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<td>- cabinets</td>
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<td>- ceilings</td>
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<td>- cellular or wireless or mobile or digital phones</td>
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<td>- chairs</td>
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<td>- [computer] keyboards</td>
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<td>- counters or countertops (non-food)</td>
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<td>- cribs</td>
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<td>- desks</td>
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<td></td>
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<td>- [diaper or infant] changing tables</td>
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<td>- diaper pails</td>
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<td>- dictating equipment [surfaces]</td>
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<td>- doorknobs</td>
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<td>- exterior or external toilet surfaces</td>
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<td>- exterior or external urinal surfaces</td>
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<td>- faucets</td>
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<td>- floors</td>
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<td>- garbage or trash cans</td>
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<td>- [grocery store or supermarket] carts</td>
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<td>- desktops</td>
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<td>- vinyl/painted surfaces</td>
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<td>- plastic surfaces</td>
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<td>- glazed/ceramic surfaces</td>
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<td>- glazed porcelain</td>
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<td>- chrome/stainless steel</td>
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<td></td>
<td></td>
<td>- laminated surfaces</td>
</tr>
</tbody>
</table>
VETERINARY USE SITES

- animal hospitals
- animal housing facilities
- animal life science labs or laboratories
- [animal or pet] grooming facilities
- pet shops and stores
- equine farms
- farms
- kennels
- livestock and/or swine and/or poultry facilities
- pet areas
- small animal facilities
- veterinary or vet clinics or facilities or hospitals
- veterinary or vet offices

VETERINARY SURFACES

- animal equipment
- automatic feeders
- cages
- external surfaces of [veterinary] equipment
- feed racks
- stalls
- fountains
- hard nonporous [environmental] veterinary surfaces
- pens
- reception counters or desks or areas
- veterinary hard nonporous surfaces
- troughs
- vet or veterinary clinic surfaces
- veterinary or vet care surfaces
- watering appliances

For any use site that includes electronics or electronic components [please] refer to manufacturer’s instructions [for appropriate use] [before use.]

DENTAL USE SITES

- dental clinics
- dental operation area
- dental or dentists offices
- labs or laboratories

DENTAL SURFACES

- chairs
- counters
- dental countertops
- [dental] operatory hard surfaces
- dentist or dental chairs
- dental hard, nonporous surfaces
- hard nonporous [environmental] dental surfaces
- light lens covers
- reception counters or desks or areas

For any use site that includes electronics or electronic components [please] refer to manufacturer’s instructions [for appropriate use] [before use.]

(Optional Label Claims)
- Antibacterial
- Bactericide
- Deodorizer / Deodorizes
- Disinfects
- Eliminates Odors
- Removes Odors
- Removes [Tough] [Toughest] Stains
- Stain Remover
- Advanced Biocide
- Advanced Biocide Technologies