



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 6, 2017

Jacqueline Kemper  
Advanced Biocide Technologies, Inc.  
2466 N. Redington Pl.  
Tucson, AZ 85749

Subject: PRIA Label Amendment – Add Additional Organisms and Claims to the Master Label  
Product Name: BIOTAB 7  
EPA Registration Number: 91399-2  
Application Date: June 30, 2016  
Decision Number: 520878

Dear Ms. Kemper:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Srinivas Gowda by phone at (703) 308-6354 or via e-mail at [gowda.srinivas@epa.gov](mailto:gowda.srinivas@epa.gov)

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Fuller, for". The signature is written in a cursive style.

Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: EPA Stamped Label

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## [Master Label]

# BIOTAB7

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

## [Biocide, 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 Biotab7 in 400 ppm hard water and supplemented with 5% soil load.]

[Disinfectant, Deodorant, Slimicide, Fungicide, Algaestat, Mildewstat, Cleaner]

[All-In-One, Multi-Surface, One-Step, Bactericidal, Odor Counteractant, Odor Neutralizer]

[Commercial, Medical, Residential, Industrial, Institutional]

[Hospital [-Grade] Disinfectant, Cleaner, Multi-Surface Disinfectant Cleaner, Cleans All Hard, Non-Porous Water Washable Surfaces]

[[Kills [99.9%] Germs] [Ordinary Cleaners [don't][can't]] [For [Use in] Organic Production]

**Active Ingredient:**

Sodium chlorite:.....20%

**Other Ingredients:.....80%**

**Total.....100%**

FIRST AID	
If in Eyes	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on Skin or Clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
If Inhaled	Move person to 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.	

## KEEP OUT OF REACH OF CHILDREN DANGER

[See back/side panel for additional precautionary statements]

EPA Reg. No: 91399-2

EPA Est. No.: 90133-CHN-001

Net Contents/Weight:

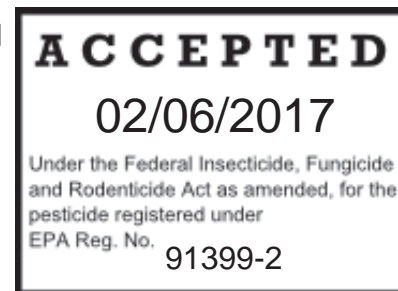
Manufactured By:

Advanced Biocide Technologies Inc.

599 Sawgrass Corporate Parkway

Sunrise, FL 33323

EMERGENCY #: INFOTRAC 1-800-535-5053



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#### 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 face shield or goggles and rubber gloves when handling. Wear coveralls worn over long-sleeved shirt and long pants. Wear a NIOSH/MSHA 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 re-use. Handlers applying product 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 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. 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 re-use or refill container. Offer for recycling if available or reconditioning if appropriate or place in trash. **ALUMINUM AND PLASTIC BAG HANDLING:** Do not re-use containers. Completely empty container and discard. Do not contaminate food or feed by storage or disposal.

[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)] [For use in institutional [, residential] and commercial applications.]

[Biotab7 is a [patent pending] [patented] formula. It controls microbial contamination and disinfects. Biotab7 has been tested and validated by an independent lab, assuring it is the purest quality. Efficacy of Biotab7 depends on degree of activation. The tablets must be fully activated with water. Read instructions carefully prior to use.]

It is recommended, if user is not sure of chlorine dioxide levels, to use a chlorine dioxide test strip or kit such as Hach Colorimeter II.

[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 pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.]

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**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The product label must be in possession of the user at the time of application. Read the label before using this product.

[See Insert for Directions for Use]

**TO CLEAN, DISINFECT AND DEODORIZE HARD, NON-POROUS SURFACES**

For all applications, directly apply by mop, sponge, spraying apparatus, ensuring visible application for time specified or apply through immersion or clean-in-place application.

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

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

[Product has a linear concentration, independent from volume of water or target PPM. Wait 3 minutes to reach full concentration.]

[Dosing table provides multiple ways target PPM can be reached. Individual solutions will be provided to meet your specific needs.]

[1 gram (0.035 oz.) or 20 gram (0.71 oz.) Biotab7® tablets per specified amount of tap water]			
Amount of Water	To Achieve Use Concentration of (PPM)	Number of 1 gram tablets	Number of 20 gram tablets
5000 Gallons	1 ppm		11
50 Gallons	5 ppm	11	1
10 Gallons	20 ppm	9	
100 Gallons	100 ppm		22
10 Gallons	250 ppm		6
50 Gallons	300 ppm		33
10 Gallons	500 ppm		11
10 Gallons	1000 ppm		22
500 Gallons	5000 ppm		5,374

[1 gram (0.035 oz.) or 20 gram (0.71 oz.) Biotab7® tablets per specified amount of tap water]			
Amount of Water	To Achieve Use Concentration of (PPM)	Number of 1 gram tablets	Number of 20 gram tablets
1 Quart	<b>500</b>	6	
1 Gallon		22	
5 Gallons			6
10 Gallons			11

Tablets and liquid solution must be handled with care and all procedures must be followed according to the product label and the SDS (Safety Data Sheet).

**General Safety Guidelines:**

Read Advanced Biocide SDS first. Always be aware of product fumes during mixing. Do not inhale above open containers. Close container quick and tightly and store in cool, dark, well ventilated room. [Ask your supplier before opening package for dosage.]

1. Fill an opaque spray bottle or appropriate container with specified amount of tap water
2. Slowly add correct number of Tablets to Water. Do Not add water to tablets. Tablet => Water
3. Wait 3 minutes, stir gently
4. Discard unused product after 8 hours [or as specified in Use Application Directions]

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Biotab7 is proven effective as a disinfectant on hard, non-porous surfaces against the following in:	
5 Minute Contact Time	1 Minute Contact Time
Staphylococcus aureus [ATCC 6538] [S. aureus]	Feline calicivirus [Strain F-9 ATCC VR-782] [Norovirus]
Methicillin Resistant Staphylococcus aureus [ATCC 33591] [MRSA]	Influenza A [H1N1] [Virginia/ATCC1/2009, ATCC VR- 1736]
Pseudomonas aeruginosa [ATCC 15442] [P. aeruginosa]	Trichophyton interdigitale [ATCC 9533] [Athletes Foot Fungus]
Enterococcus faecalis [E. faecalis] [ATCC 51299] [VRE]	Carbapenem-Resistant Klebsiella pneumoniae [ATCC BAA-2146] [CRE]
Escherichia coli [ATCC BAA-2469] [CRE]	
Salmonella enterica [ATCC 10708] [S. enterica]	<b>Odor</b>
Listeria monocytogenes [ATCC 49594] [L. monocytogenes]	Kills odor-causing bacteria, fungi, mold, and mildew.

## DISINFECTION USE APPLICATIONS

### 1. CLEAN AND DEODORIZE COMMERCIAL, MEDICAL, HEALTH CARE, RESIDENTIAL, INSTITUTIONAL, AND INDUSTRIAL PREMISES, AND EQUIPMENT

#### HOSPITAL AND HEALTH CARE FACILITY DISINFECTION

Biotab7 is a one-step Medical Grade [no rinsing required] [hospital-use] [germicidal] [biocide] [biocidal] disinfectant, cleaner, fungicide and deodorant [odor-counteractant] [odor neutralizer] designed for cleaning, [and] disinfecting, [deodorizing] [of] hard, non-porous environmental surfaces. [Biotab7 cleans quickly, removing dirt, grime, body, oils, dead skin, blood, and other organic matter commonly found [.] in [:] {List Sites from Use Site Index}} [and] on medical surfaces]]. [It eliminates odors, leaving surfaces smelling clean and fresh.] [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 directions at 500 ppm for 5 minutes' contact time or keep surfaces wet for at least 5 minutes.

#### HEALTH-CARE AND VETERINARY FACILITIES

Biotab7 is a one-step Medical Grade [no rinsing required] [germicidal] [biocide] [biocidal] disinfectant, cleaner, fungicide and deodorant designed for cleaning, [and] disinfecting, [deodorizing] [of] hard, non-porous environmental surfaces. Use to disinfect surfaces and instruments [.] in [:] {List Sites from Use Site Index}} [and in] related facilities. Apply solution to surfaces and/or instruments thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface until totally wet. Do not breathe spray. {List surfaces from Use Site Index} Prepare according to directions 500 ppm for 5-minute contact time or keep surfaces wet for at least 5 minutes .

#### DISINFECTANT FOR HARD, NON-PORUS, NON-FOOD SURFACES

Use Biotab7 [biocide] to disinfect any hard surfaces [including those [.] in [:] {List Sites from Use Site Index}} in [ or any other location] that may be contaminated. [Product may be used to disinfect *Staphylococcus aureus*.] {List surfaces from Use Site Index} Prepare according to directions at 500ppm for 5-minute contact time.

#### DISINFECTION OF BENCH TOPS, BIOLOGICAL 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, prepare Biotab7 according to directions at 500 ppm and squirt onto surfaces with squeeze bottle, leave surfaces wet for 5-minute contact time.

### 2. SWIMMING POOL AND SPA

#### SWIMMING POOL AND SPA CIRCULATION SYSTEMS

- Kills and removes mold and slime from pool and spa circulation systems
- Prevents mold and slime growth and formation [in pool and spa circulation systems]
- This product is compatible with [All Spa Treatment Systems]

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## SPA

### CLEANING AND DISINFECTION OF HOT TUBS/SPAS

Use Biotab7 to clean and disinfect hot tubs and spas. Residual byproducts must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards. Do not add this product to any automatic dispensing device. Do not apply product when persons are in the spa.

### PRIOR TO SPA APPLICATION

Make certain that the pump filter and all spa equipment are working properly. Remove all chlorine or bromine releasing products from spa [Do not use this product if spa contains an in line chlorine or bromine dispensing device that cannot be bypassed]. For best results remove and clean the filter cartridge with a chemical filter cleaner [or by backwashing and/or chemically cleaning sand]. [For best results chlorine or bromine concentrations should be near 0 ppm before applying this product].

### FOR ROUTINE SPA MAINTENANCE

#### INITIAL DOSE

To apply, turn off pump, remove spa cover and filters. [Clean filters with a chemical filter treatment]. Apply one 20-gram tablet Biotab7 inside the [filter port] {or} [filter receptacle] {or} [filter housing] {or} [or skimmer basket] and re-cover spa. Leave general area around spa. After 30 minutes turn pump and circulation jets on for about 5-7 minutes and turn pump off. It may be necessary to turn pump off at the remote cut off switch to disable all circulation in the spa of this product. Leave pump off at least 30 minutes but not longer than 2 hours. Wait approximately 30 minutes before reusing spa. Replace filters prior to entering spa. Application of this product may dislodge mold and slime growths from the spa circulation system. If substantial dislodging occurs, it may be necessary to drain and refill spa.

#### ROUTINE MAINTENANCE

Frequency of application is once every 4-6 weeks. Follow INITIAL DOSE application directions. Wait at least 8 hours before use.

### WHEN USED FOR SPA REFILL CONDITIONER (PRIOR TO DRAINING AND REFILLING SPA)

Draining and refilling your spa with fresh water at regular intervals is highly recommended. Using this product before draining your spa will kill mold and slime in your circulation system. This will help assure a cleaner circulation system when spa is refilled. Follow Initial Dose application directions. Drain and refill spa.

## POOL

### PRIOR TO POOL APPLICATION

Ensure that pump and filter equipment are working properly. If necessary, clean the filter equipment by backwashing and/or chemical cleaning. Do not add this product through any automatic dispensing device. Apply product when no persons are in the pool. Application of this product may dislodge deposits from the pool circulation system. To help clear water apply a filter aid.

### POOL DOSING CHART

1 – 20-gram tablet in skimmer and 1- 20-gram tablet in lint basket for every 1,500-gallon pool capacity (for a 9,000-gallon pool use 6 – 20 gram tablets in skimmer and 6- 20 gram tablets in lint basket).

### ROUTINE POOL MAINTENANCE

#### INITIAL DOSE

With the pump turned off apply appropriate number of tablets (See dosing chart) to the lint basket of the pump. Turn the pump on until primed. Leave pump on for 1 minute and then turn the pump off. Now apply appropriate number of tablets (See dosing chart) in the skimmer basket Leave pump off at least 6 hours but no longer than 12 hours. Turn pump on and resume normal pump operation schedule. Wait at least 8 hours before use.

#### ROUTINE MAINTENANCE

Frequency of application is once every 3 - 4 weeks. Follow initial dose application directions for your pool size.

### POOL TREATMENT

For pools with a large clarifier demand, hazy water or visible growth of slime and mold follow the directions below for treatment. Brush all visible growth from all areas of pool giving special attention to steps, skimmers, ladders, and lights. Then follow MAINTENANCE INITIAL DOSE instructions above. Observe filter pressure and backwash as needed. Reapply filter aid and continue to

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filter until pool has been filtered for 24 hours. Clean the filter using a filter cleaner. Within 5 - 7 days begin maintenance program starting with initial dose above.

### **3. DEODORIZE, MOLD AND MILDEW**

#### **DEODORIZE**

Biotab7 eliminates and destroys odors and odor-causing bacteria [.] in [:] {List Sites from Use Site Index} [and other places where bacterial growth can cause malodors]. Prior to treatment, rooms should be in clean condition. Prepare according to directions at 500 ppm and apply to area with sprayer until covered with mist. Avoid breathing mist. Allow 5-minutes contact time or air dry, then ventilate area. Re-apply as required.

#### **MOLD AND MILDEW CONTROL**

Spray, pour, or wipe Biotab7 on[.] [:] {List Sites from Use Site Index} [and other] hard surfaces for mold, mildew and fungicidal control. Prepare according to directions at 500 ppm, apply to area. Allow 1-minute contact time. After 30 minutes' rinse with water.

#### **FOAM SOLUTION**

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

#### **DEODORIZE PET LITTER BOXES, CARPETS, CONCRETE FLOORS, ETC.**

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

Concrete floor: Clean floor thoroughly. Prepare a solution of 1,250 ppm and apply liberally using mop or spray onto floor. Allow to air dry. Keep Children and pets off treated areas during application and until area is vacuumed.

Animal Bath: Wash animal well with appropriate pet shampoo, rinse with clean water. Prepare a solution of 100 ppm and apply to animal thoroughly. Allow to air dry. Avoid direct contact with animal's eyes, nose, ears or open wounds.

### **4. FUNGICIDAL**

#### **FUNGICIDE**

Biotab7 is effective as a fungicide, on hard, non-porous surfaces. Prepare and apply according to directions to 500 ppm, let stand for 1-minute contact time or allow to air dry.

### **5. CLEANER, DEODORIZER AND FUNGICIDE FOR FOOD AND DRINK PROCESSING FACILITIES**

#### **CONTROL ODOR AND SLIMICIDE FOR STAINLESS STEEL TRANSFER LINES AND ON-LINE EQUIPMENT SUCH AS HYDROCOOLERS, PASTEURIZERS, ETC.**

Pre-clean the equipment or line thoroughly before treatment, using a suitable detergent followed by a clean potable water rinse. Prepare solution according to directions at 20 ppm. Fill lines and equipment overnight. Drain and allow to air dry prior to next start-up.

#### **DISINFECTANT, [BIOCIDE,] CLEANER AND FUNGICIDE FOR NON-POROUS FOOD CONTACT SURFACES.**

Disinfect [terminal rinse, stainless steel, tanks, water/transfer lines, on-line equipment, recirculating, Clean-In-Place systems, tables/trays/bins, utensils, food processing equipment in poultry, meat, fish processing plants, dairies, restaurants, and bottling/canneries/brewery plants and similar] surfaces.

Prior to disinfection, remove gross filth with a pre-flush, pre-scrape or pre-soak treatment. Clean lines, tanks or surfaces with a suitable cleaner and rinse with potable water. Prepare solution according to directions at 100 ppm. To treat: Fill, flush, immerse, circulate, wipe or spray equipment or surface with solution. Hard to reach in-place equipment, pipes, closed vessels, etc. must be filled with the solution to ensure contact of all surfaces. Use suitable protective breathing apparatus when spraying the solution on equipment. Allow the solution to drain from all treated surfaces and air dry. Do not rinse treated surface.



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#### POTATO FACILITIES

Biotab7 can be used in potato facilities to clean and deodorize. Apply to 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 directions at 5 ppm.

#### FRUIT AND VEGETABLE RINSE

Before treatment, whole, uncut fruits and vegetables should be pre-washed and rinsed with clean potable water. Prepare Biotab7 [biocide] [biocidal] solution according to directions at 5 ppm. Immerse produce in solution for 10 – 20 seconds and rinse with clean potable water.

#### ODOR CONTROL AND SLIMICIDE FOR ICE MAKING PLANTS AND MACHINERY

Disassemble and thoroughly clean ice making machinery using a suitable cleaner followed by a potable water rinse. Apply product to the incoming water line of the ice machine via a chemical feed pump or injector system. Prepare solution according to directions at 20 ppm.

#### ODOR CONTROL AND SLIMICIDE IN COOLING/WARMING WATER FOR CANNING, PASTEURIZERS, PROCESS WATER FOR VEGETABLE/FRUIT RINSES AND ASSOCIATED TANKS, FLUMES, LINES, ETC.

All equipment should be precleaned with suitable detergent followed by a rinse with clean, potable. Water systems, including the cooling and warming tanks or spray systems, towers, lines and all water containing parts of the system must be batch loaded at start-up with 5 ppm Biotab7 solution. Prepare a solution according to directions at 5 ppm. Apply using a controlled chemical feed pump or injector system.

### 6. CLEAN AND DEODORIZE FARM AND AGRICULTURE EQUIPMENT AND PREMISES

#### SHOE BATH

Product is effective as a shoe bath. Shoe bath should be placed outside of the doorway and used before entering all buildings. Change the solution daily or when the solution appears soiled. Prepare solution according to directions at 1,000 ppm for 5 minutes.

#### TO PREVENT AIRBORNE AND SURFACE CONTAMINATION OF THE HATCHERY FROM THE TRAY WASHING ROOM AND LOADING PLATFORM

- A. Close doors in the tray washing room to avoid contamination of other hatchery operations. Discard chick downs, egg shells, and cast-off chicks into the trash barrels and transfer the covered containers to the loading platform for disposal.
- B. Wash trays, carriages and other working equipment in a tray washing machine with 300-500 psi water to remove gross filth and soil. As a final rinse prepare a solution according to directions at 20 ppm in high pressure water. Hold disinfected equipment in a closed area for re-use.
- C. Entrance and exit from the tray washing room should be through a foot bath for 5 minutes.
- D. Repeat treatment after each use of the tray washing room.
- E. Wash loading platform as needed to remove gross filth and soil. Wash trash containers discarding the contents to remove gross filth and soil. Prepare solution at 500 ppm and spray trash containers. Allow equipment to air dry.

#### BACTERICIDE, FUNGICIDE, AND DEODORANT IN THE HATCHING AREA

- A. As soon as chicks are separated from hatch, remove trash containers with eggshells and down from the area. Remove poultry and feeds from premises, trucks, coops, and crates. Remove litter and droppings from floors, walls and surfaces occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with cleaner and rinse with water.
- B. Prepare solution at 1,000 ppm and spray the entire area for 5 minutes. Allow 10-minute contact time. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has dried.
- C. Scrub treated feed racks, troughs, automatic feeders, fountains and waterers with cleaner and rinse with water before re-use.
- D. All workers should use a hand rinse containing a solution of 50 ppm.

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

Product cleans, disinfects and deodorizes hard, non-porous surfaces leaving surfaces smelling clean and fresh 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. Its non-abrasive formula is designed for use on 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 troughs, racks, and other feeding and watering appliances.
- D. Pre-clean visibly soiled surfaces.
- E. Saturate surfaces with 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 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. Avoid direct food contact
- I. Prepare according to directions at 1000 ppm for 5-minute contact time.

#### DISINFECTANT, FUNGICIDE, AND DEODORANT OF POULTRY DRINKING WATER

Stage 1: Depending on maintenance history of the pipe network, stage 1 requires from one to several weeks to fully break down the debris in the pipes. Start stage 1 with a prepared solution of 20 ppm and apply 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 more time to remove build-up.

Stage 2: Prepare Stage 2 solution at 5 ppm and use directly in system with automatic injection system.

Note: application specifics may vary by metering system, frequency of replenishment, and overall capacity of drinking container.

#### TO CONTROL BACTERIA AND ODOR IN THE INCUBATOR ROOM

- A. Spray area at least once per week. Prepare solution according to directions at 1,000 ppm for 5 minutes, after removing gross filth or soil with a high-pressure water wash. Wet all surfaces and allow to dry.
- B. Mop floor daily with a prepared solution at 390 ppm.
- C. Prepare a solution of 1,000 for a shoe bath and place at all entrances.
- D. Add a solution of 20 ppm to humidification system or spray the air filters with a solution of 100 ppm to reduce airborne contamination.
- E. Each time the eggs are removed from the incubator, a glove dip solution of 50 ppm is recommended, followed by a solution of 1,000 ppm sprayed on the eggs. The doors to the area must be kept closed to avoid airborne contamination.

#### TO CONTROL ODOR AND BACTERIA WHEN SEPERATING CHICKS IN THE CHICK ROOM, CHICK GRADING BOX AND SEXING ROOM

- A. Remove poultry and feeds from premises, trucks, coops and crates. Remove litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with cleaner and rinse with water.
- B. Spray the entire area with a solution of 1,000 ppm for 5 minutes. Allow a 10-minute contact time. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has dried. Scrub treated feed racks, troughs, automatic feeders, fountains and waterers with cleaner, and rinse with potable water.
- C. All workers in this area must use a hand rinse. Prepare glove dip solution at 50 ppm.
- D. After use, wash area with high-pressure sprayer to remove gross filth and soil. Prepare a solution of 1,000 ppm and use a spray bottle on hands, wire mesh and in empty chick boxes to control contamination and odors from litter.
- E. Mop floor daily with a solution of 390 ppm. Allow to air dry.

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#### BACTERICIDE, FUNGICIDE, AND DEODORANT FOR THE EGG ROOM

- A. Prepare solution of 20 ppm and wash egg room with high pressure sprayer to remove gross filth or heavy soil.
- B. Prepare solution of 1,000 ppm and spray the area for 5 minutes. Cover walls, ceiling, floors, work tablets and benches. Allow to dry for 1 hour or if possible overnight before resuming operations. The washing operations must be conducted once a week or more frequently in cases of heavy contamination.
- C. Mop floors using a prepared solution at 390 ppm. Allow to air dry.
- D. Prepare a solution at 1,000 ppm for a shoe bath and place at entrance to the egg room. Keep doors closed at all times. Prepare a solution of 50 ppm for a glove dip and use when entering and exiting the room. Replace shoe bath and glove dip daily or sooner if traffic is heavy.
- E. Prepare a solution of 40 ppm and add to humidifier water tank to control build-up and airborne spread of odor-causing microorganisms. Prepare a solution of 20 ppm and add to the water supply in the egg washing machine.

#### BACTERICIDE, FUNGICIDE, AND DEODORANT FOR USE IN INCUBATOR HUMIDIFICATION SYSTEMS

Prepare Biotab7 solution and inject into humidification water supply. Prepare according to directions at 300 ppm.

#### AGRICULTURAL IRRIGATION SYSTEMS, FUNGICIDE AND CUT FLOWERS

Product may be used to treat, control rusts and leaf spot, extend shelf-life of cut flowers; and as a fungicide, to remove slimes and inhibit re-emergence in irrigation and other non-potable water systems. Use on flooded floors and benches, recycled water systems, humidification and misting systems. Prepare according to directions at 300 ppm.

POTS/FLATS: Apply Biotab7 to used planting devices such as pots and flats. Remove loose soil and plant residue then soak for 10 minutes. Prepare solution according to directions at 500 ppm.

CUTTING TOOLS: Prepare solution according to directions at 500 ppm. Soak cutting tools in solution, allow tools to remain wet for best results. At end of work period, dry and oil tools.

BULBS: Use Biotab7 to treat spoilage causing bacteria of bulbs. Prepare product according to directions at 500 ppm, soak cleaned bulbs for 10 minutes, remove and allow to dry before storage.

#### ODOR CONTROL AND SLIMICIDE IN ANIMAL CONFINEMENT FACILITIES

To treat animal confinement facilities: Remove all litter and manure from premises and thoroughly clean all surfaces with cleaner. Rinse with water. Prepare Biotab7 solution according to directions at 500 ppm. Use sprayer to saturate all surfaces.

### **7. CLEANER AND DEODORIZER FOR INDUSTRIAL FACILITIES AND EQUIPMENT**

#### DISINFECTANT, FUNGICIDE AND DEODOERANT FOR WATER STORAGE SYSTEMS ABOARD AIRCRAFTS, TRAINS, BUSES, BOATS, RVs, OFF-SHORE OIL RIGS, ETC.

Clean tanks with cleaner, thoroughly flush with clean, potable water prior to treatment. Prepare the solution according to directions at 500 ppm. Pour the solution into the tank, filling completely. Bleed air out of lines and allow to stand at least 10 minutes. Drain tank and lines and flush with potable water

#### ODOR CONTROL AND SLIMICIDE IN COMMERCIAL WATER FILTRATION SYSTEMS, SAND BEDS, GRAVEL BEDS AND CHARCOAL FILTERS, WITH ACCESSIBLE SERVICE HATCHES

Drain existing water from sand and carbon filters and rinse with clean, potable water. Fill sand filter with potable water. Prepare solution according to directions at 300 ppm and add to sand filter through access hatch. Circulate system 30 minutes. Allow to soak 2 – 3 hours. After treatment, drain system and rinse with clean, potable water.

#### DISINFECTANT, FUNGICIDE, AND DEODORANT FOR TRANSPORTATION, LOADING AND HAULING EQUIPMENT

Clean shipping containers, railroad cars, railroad tanks, cars, trucks, truck trailers, loading chutes, reusable crates and other equipment for transportation of animals, produce or vegetables prior to use. Pressure spray or scrub with solution, covering all exposed areas. Prepare according to directions at 500 ppm for 5-minute contact time.

#### FUNGICIDE, AND DEODORANT FOR VENTILATION SYSTEMS

To treat surfaces for odor causing bacteria associated with ventilation and air conditioning duct work in residential, commercial, and institutional situations. Prior to inspecting, cleaning, treating or working on a ventilation system of its components, the system must be turned off or disconnected from any part of the system not isolated. Mechanically clean, vacuum, or blow free of dirt, dust, mold and debris all duct work using a commercial duct cleaning system or service prior to treatment. The air ducts to

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be treated must be mechanically sound and free of air leaks. Application of solution: activated solutions sprayed into duct work. All surfaces must be thoroughly wet for at least 10 minutes. Spray application is the preferred method on large surfaces that are easily accessed by removing entry plates or access panels. The spray equipment must provide a consistent particle size (1-300 microns) and a uniform spray pattern using a 0.011" spray lip. Avoid excess wetting but be certain coverage is complete on the tops, sides and bottoms of the unlined sheet metal air ducts. All preexisting or treatment created access panels must be resealed or replaced in accordance with Industry Standards after servicing. During application, area must be closed as tightly as possible and sealed. After spraying the area must be opened and aired for 1 hour before re-entry. Mist may be irritating if inhaled. Treat as required.

#### DEODORIZE HVAC

System Ductwork: Spray Biotab7 into system intake vents while system fan is running. Allow enough spray time for product to contact air duct surfaces. Repeat application as necessary.

Evaporator Coils Drip Pans and Associated Air Conditioning Parts: Air Conditioning system parts must be manually precleaned prior to application using a suitable coil/drip pan cleaner. After cleaning thoroughly spray 500 ppm solution Biotab7 on to cleaned surfaces. Do not wipe off, air dry.

Evaporative Cooler Excelsior Pads

Excelsior pads must be thoroughly washed to remove dirt, debris or slime build-up. Liberally spray Biotab7 onto pads to remove odor causing bacteria and musty odors. Use 500 ppm Biotab7 solution in reservoir water for effective maintenance.

For year-round maintenance; residential homes and apartment complexes should be treated two times per year or more as needed. Commercial/industrial buildings and health facilities should be treated every month.

#### CAR, TRAIN AND TRUCK WASH WATER USED AT COMMERCIAL CAR WASHES

Biotab7 is effective against odor causing bacteria in waste water commonly used at commercial car wash operations and at facilities engaged in washing trucks, trains, boats and RV's. Waste water facilitates odors and increase disposal costs. Product will eliminate both aerobic and anaerobic bacteria. Prepare according to directions at 500 ppm for 5-minute contact time.

#### WATER BASED CUTTING FLUID/OILS

Biotab7 is a Slimicide and controls odor in water-based cutting oils. For batch treatment, prepare solution according to directions at 2 ppm and add to a fresh system. Repeat weekly or on first indication of increased contamination (odor, slime or bacterial count). For continuous treatment, prepare solution according to directions at 1 ppm and add to the system. For heavily contaminated systems, slug-dose with solution prepared according to directions at 20 ppm. After 12 hours, start with the continuous procedure described above.

#### PULP AND PAPER MILL

Biotab7 is a Slimicide for paper mill process water. Dose varies with the degree of microbiological and process contamination. Depending on system specific requirements, apply product continuously or intermittently. 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 solution according to directions at 5 ppm.

#### DISINFECTANT, FUNGICIDE, AND DEODORANT FOR STORAGE TANKS AND PIPELINES

Empty tank or pipeline and flush with potable water. Add solution to the flush water and circulate through system. Rinse with potable water. Drain. Allow to air dry. Close tanks to protect against contamination. Residual 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 directions at 500 ppm for 5-minute contact time.

## 8. MUNICIPAL WATER TREATMENT

#### MUNICIPAL WELL WATER

To remove odor and tastes from municipal well waters, prepare solution according to directions at 1 ppm and apply using a metering pump, or injector system. Residual by products must be monitored as required by the National Primary Drinking Water Regulations (40CFR Part 141) and State Drinking Water Standards.

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#### WELL WATER TREATMENT

To remove odor and tastes from well water, flush the well casing with Biotab7 to wash off debris. Back wash to increase yield and reduce turbidity. Use a chlorine dioxide test kit to monitor the residual level. Re-treat well if water samples become biologically unacceptable. Residual 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 directions at 20 ppm for backwash and 5 ppm thereafter.

### 9. INDUSTRIAL PROCESS WATER

#### RETENTION BASINS AND PONDS

Prepare according to directions to remove algae. Add to water to achieve 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 directions to remove algae 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: Filter with gravel or sand filtration to remove the Nematode bodies. This process is important to remove the nutrition to subsequent micro-organisms. Prepare according to directions at 5 ppm for 4 hours contact time.

#### INDUSTRIAL COOLING TOWER WATER

Biotab7 is a Slimicide 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 directions at 100 ppm. For once through systems: Prepare solution according to directions at 1 ppm and apply with appropriate method. Slug dose: Prepare solution according to directions at 20 ppm. Continuous dose: Prepare solution according to directions at 1 ppm.

#### DIRECTION TO FLUSH WATER DISTRIBUTION SYSTEMS

Flush 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 directions at 250 ppm for 10 minutes' contact time.

#### WASTE WATER TREATMENT

Biotab7 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 solution of 5 ppm will 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 directions at 1 - 5 ppm.

### 10. CHEMICAL DESTRUCTION AND SCAVENGING

#### 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 removed for every 1.2 ppm of product above pH 5. Prepare according to 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 solution 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.

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#### 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 SULPHIDE 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. 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, optimum is 5 ppm. Prepare according to 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 Biotab7 eliminates approximately 95% of the NO in the gas, in concentrations of 20 ppm for short term. Prepare according to directions at 20 ppm and apply in the scrubber system water for the specific application.

#### Application Use Site and Surfaces:

MEDICAL, VETERINARY, DENTAL, RESIDENTIAL AND GENERAL USE SITES		
Clinics or Hospitals	Health or Home Care facilities	Ophthalmic offices
Pharmacies	Isolation areas	Homes
Acute Care facilities	Hospices	Physician offices
Ambulance or [Emergency medical] transport vehicles	Manufacturing plants or facilities	Outpatient clinics or Surgical centers[(OPSC)]
Anesthesia rooms or areas	Medical or Physicians or Doctors' offices	Patient Care areas or Rooms or Restrooms
Nursing homes	Intensive Care Units or ICUs	[Pediatric] Exam rooms or areas
Nurse call [device] [button] [and cord] Nursing or Nurses' stations	Neonatal Intensive Care Units [(NICU)] (not for use on medical devices)	Pediatric Intensive Care Units [(PICU)] (not for use on medical devices)
Donation centers	Labs or Laboratories	Physical Therapy rooms or areas
CAT Labs or Laboratories	Newborn or Neonatal nurseries	Transducers/Probes
Central Service areas	Blood Banks	Radiology or X-Ray rooms
Central Supply rooms or areas	[Eye] Surgical Centers	Recovery or Rehabilitation rooms
Critical or Intensive Care Units (not for use on medical devices)	Exam or Examination Rooms (not for use on medical devices)	Respiratory Therapy rooms or areas
Dialysis Clinics or machines (exterior)	Emergency Rooms or ERs (not for use on medical devices)	Surgery or Operating rooms (not for use on medical devices)
Automobile/Airplane/Cruise Ship	Grocery stores	Factories
Bathroom(s)	Gymnasiums/Gyms	Kennels
Buses or Trains	Health Club[s] Facilities	Mortuaries/Morgues
Bowling Alleys	Motels/Hotels	Pet Shops or Stores or areas
Butcher shops	Industrial facilities	Produce or Agriculture areas
Churches	Laundry rooms or Laundromats	Public areas
Colleges/Universities/Schools	Long Term Care facilities	Recreational or Sport centers
Correctional facilities	Kitchens/Restaurants	[Animal or Pet] Grooming facilities

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Day Care Centers	Military Installations	Shelters
Dormitories	Residential homes	Storage rooms or areas
Animal Housing facilities	Equine Farms or Farms	Supermarkets
Animal Life Science Labs or Laboratories	Livestock or Swine or Poultry facilities	Veterinary or Vet Clinics or facilities or Hospitals

MEDICAL, VETERINARY, DENTAL, RESIDENTIAL AND GENERAL SURFACES		
Vinyl or Plastic or Painted surfaces	All Hard Non-Porous [Household] surfaces	Chemotherapy hoods
[Diaper or Infant] Changing tables	All Stainless-Steel surfaces	[Tele]phones
Changing tables	[Inner] [Inside of] Drawers	Towel dispensers
Diaper pails	Playpens	Counters/Countertops
Dictating equipment [surfaces]	Locker rooms	Toys
Doorknobs	Mammography equipment	Autoclaves
Light lens covers	Baked enamel surfaces	[Blood] [Plasma] [Semen] [Milk] [Apheresis]
Transducers	Phlebotomy trays	Chairs or Desks or Counters
Garbage or Trash cans	Pipes	Cabinet or Closet handles
Animal equipment	Glazed/Ceramic surfaces	Coated Mattresses or Pillows
Grocery Store or Supermarket Carts	Glazed Porcelain or Tile	[TV] Remote[s] control][s]ultrasound
Automatic feeders or troughs or racks	[Mayo] [instrument] stands	Laminated surfaces
Cages/Pens/Stalls	Watering appliances or Fountains	Carts
For any use site that includes electronics or electronic components [please] refer to manufacturer's instructions before use.		

{Images which may be used on packaging}



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