

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

February 27, 2008

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OPP Decision Number: 386051

David Swain
Agent for Activon, Inc.
c/o SRC
P.O. Box 1014
Columbia City, IN 46725

Subject: Application for Amended Registration
Product Name: EfferSan™
EPA Registration Number: 66570-2
Application Date: November 7, 2007
Receipt Date: November 9, 2007

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the following comments.

Proposed Amendment

- Add Disinfection claim for :
 1. *Pseudomonas aeruginosa*
 2. *Staphylococcus aureus*
 3. *Salmonella enterica*
- Add Sanitization claim for : *Salmonella typhi*

Acceptable Data

1. The proposed label claims that the product, EfferSan, is an effective disinfectant on pre-cleaned, hard, non-porous surfaces against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Salmonella enterica* for a contact time of 5 minutes at a 1300 ppm dilution. Data provided by the applicant (from testing of a 1300 ppm use solution and less concentrated use solutions) support this claim.
2. The proposed label claims that the product, EfferSan, is an effective sanitizing rinse on pre-cleaned, hard, non-porous food contact surfaces against *Salmonella typhi* for a contact time of 1 minute at a 100 ppm dilution. Data provided by the applicant (from testing of a 50 ppm use solution) support this claim.

Labeling Comments

1. On pages 1 and 3 of the proposed label, add a period after "lab animal facilities".
2. On page 3 of the proposed label, change "tile to "glazed tile".

		CONCURRENCES					
YMBOL	7510P	7510P					
JRNAME	EXBC19	E Mitchell					
DATE	2/27/08	2/28/08					

3. On page 5 of the proposed label, change "and NPDES permit" to read "an NPDES permit."
4. On page 6 of the proposed label under the "Egg Processing Plants" section, change "Follow the potable water rinse" To read "Follow with a potable water rinse."
5. On page 6 of the proposed label, change "see Application Methods section" to read "See Sanitizing Application Methods section."
6. On page 7 of the proposed label under the "Hand Washing of Items" section, change "spread the solution over the surface to be sanitized" to read "apply the use solution to surfaces using a cloth, sponge, or coarse sprayer."
7. On page 8 of the proposed label, change "managers" to read "mangers."
8. On page 8 of the proposed label, re-insert the following statement into the paragraph describing use of the product to disinfect animal housing facilities: "Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure."
9. On page 8 of the proposed label under the "Milk Handling and Processing Equipment" section, change "sharp decline the available chlorine content" to read "sharp decline in the available chlorine content."
10. In the dilution chart for the product, a tablet weighing 3.25 g would be approximately 0.11 ounce, not 0.07 ounce. The dilutions listed for a 325 g tablet must be re-evaluated, as the dilutions appear to correspond to a 0.07 ounce tablet.
11. The proposed label now includes use of the product as a foam; however, data demonstrating the effectiveness of the product as a foam – to sanitize equipment – was not provided in this data package. This application must be removed from the label, until submission and acceptance of appropriate efficacy data. Per the Labeling Guidelines for Pesticide Use Directions—Antimicrobial products, "Consideration can be given to labels bearing recommendations for fogging applications of chemicals to sanitize surfaces, provided the clear-cut directions are given, limiting the application of such procedures to use as an adjunct to acceptable manual cleaning and disinfecting of room surfaces. Application prior to manual cleaning and disinfecting operations, or subsequent to such operations are considered adjuncts to such operations." Revise accordingly.

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

Sincerely,

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

CONCURRENCES							
YMBOL							
JRNAME							
DATE							

EfferSan™

Disinfectant, Sanitizer

Protects Against Odor

Controls Bacteria and Algae

Multi-purpose effervescent tablets

Sanitizes, disinfects and protects against odor

Sanitizes [kills] 99.999% [of] bacteria in 60 seconds

For use in Sanitation and Disinfection in amusement parks, breweries, beverage and food processing plants, schools, hospitals, nursing homes, hotels, child care centers, restaurants, spas, hot tubs, veterinary clinics, zoos, milk processing facilities, dairy farms, farms, poultry premises, poultry hatcheries, and livestock quarters, office buildings, industrial facilities, homes, camp sites, marine and recreational vehicles, kennels, boarding facilities, laboratories, lab animal facilities

Disinfects precleaned, hard, nonporous surfaces in 5 minutes.

Effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica* (formerly choleraesuis) [in 5 minutes]

Sanitizes precleaned, hard, non-porous food contact surfaces in 1 minute.

Effective against *Salmonella typhi* [in 1 minute]

Active Ingredient:

Sodium Dichloro-s-Triazinetrione 50%

Other Ingredients: 50%

Available Chlorine: 31.75% Total 100%

ACCEPTED
with COMMENTS
EPA Letter Dated:
FEB 27 2008

With *Activon* Technology

Keep Out of Reach of Children

DANGER

See back panel [inside] [booklet] for additional precautionary statements.

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 66570-2

{4g tablets}	{3.25g tablets}	{17.68g tablets}	{0.33g tablets}
100 Tablets (0.88 lb.)	100 Tablets (0.72 lb.)	100 Tablets (3.9 lbs)	100 Tablets(0.073 lb.)
24 Tablets (0.21 lb.)		50 Tablets (1.95 lbs)	
5 Tablets (0.044 lb.)			

{Per PR Notice 98-10, additional package sizes and net contents may be added and are permitted by non-notification}

EPA Reg. No. 66570-2

EPA Est. No. {appropriate number to be inserted}

[Manufactured for]

Activon, Inc.

900 Green Valley Road

Beaver Dam, WI 53916

Note: Bracketed [] information is optional text. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

{Back Panel/Booklet}

PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals

DANGER: Corrosive: Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Wear goggles or face shield. Thoroughly wash with soap and water separately after handling. Remove contaminated clothing and wash separately before reuse.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor or going for treatment. [You may also call 1-800-222-1222 {or other appropriate number} for emergency medical treatment advice.]	
If in Eyes	<ul style="list-style-type: none"> • 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 Swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Have person drink large amounts of water if able to swallow. Avoid alcohol. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If Inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for further treatment advice.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.	

{In accordance with PRN 2001-1, other formats may be used to present the first aid information}

Physical or Chemical Hazards

Use only clean, dry utensils. Mix only into water. Contamination with moisture, dirt, organic matter or other chemicals (including pool chemicals) or any other foreign matter may start a chemical reaction with generation of heat, liberation of hazardous gasses and possible generation of fire and explosion. Avoid any contact with flaming or burning materials such as a lighted cigarette. Do not use this product in any chlorinating device that has been used with any inorganic or unstabilized chlorinating compounds (e.g., calcium hypochlorite). Such use may cause fire or explosion.

Environmental Hazards

This pesticide is toxic to fish and aquatic organisms.

Note: Bracketed [] information is optional text. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

Disinfects floors, walls and other hard nonporous surfaces including walls, floors, tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

This product is designed for use in amusement parks, breweries, beverage and food processing plants, schools, hospitals, nursing homes, hotels, child care centers, restaurants, spas, hot tubs, veterinary clinics, zoos, milk processing facilities, dairy farms, farms, poultry premises, poultry hatcheries, and livestock quarters, office buildings, industrial facilities, homes, camp sites, marine and recreational vehicles, kennels, boarding facilities, laboratories, lab animal facilities

DIRECTIONS FOR USE

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

DISINFECTION

Prepare a 1,300 ppm solution [(refer to Dilution Chart)]. Clean surface then apply solution with mop, cloth, sponge, brush, foaming equipment or coarse trigger sprayer. Allow surface to remain wet for 5 minutes. Rinse thoroughly and allow to air dry. Prepare a fresh solution daily or when it becomes soiled or diluted. All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SPA AND TUB USE

[Refer to Dilution Chart for number of tablets to use]

Add 4 ppm available chlorine [(refer to Dilution Chart)]. Using an appropriate test kit, test and adjust the water to the following values: pH: 7.2 – 7.8; total alkalinity: 60 – 100 ppm; calcium hardness: 200 ppm, minimum. Maintain these conditions for proper spa and hot tub operation by frequent testing with a test kit. Do not allow cyanuric acid level to exceed 150 ppm. It is recommended that spas and hot tubs be drained every 60 – 90 days, more often under heavy use. Consult manufacturer's recommendations concerning the compatibility of chlorine sanitizers with their equipment. Some oils, lotions, fragrances, cleansers, etc., may cause foaming or cloudy water and may react with chlorine sanitizers, reducing their efficacy. Reentry into treated spas/hot tubs is prohibited above levels of 3 ppm chlorine.

Start-Up (Freshly Filled)

1. Turn on the circulation system and ensure that it is operating properly.
2. Add 4 ppm available chlorine [(refer to Dilution Chart)]. Check the free available chlorine (FAC) level and, if below 4 - 5 ppm, repeat as needed.

Note: Bracketed [] information is optional text. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

Regular Use

Turn on the circulation system and ensure that it is operating properly. Add 4 ppm available chlorine [(refer to Dilution Chart)] to the water. Test for FAC and add additional product, if necessary, to attain 4-5 ppm FAC. Maintain 1 – 3 ppm FAC while the spa or hot tub is in use. After each use, shock treat with 10 ppm available chlorine [(refer to Dilution Chart)] to control odors and algae. Repeat as needed. Spa or hot tub should not be entered until FAC reaches 1 – 3 ppm.

Extended Non-Use Period

During extended periods when the spa or hot tub is not being used, with the circulation system running, add 4 ppm available chlorine [(refer to Dilution Chart)] twice a week or as needed to maintain 1 – 3 ppm FAC.

{FOR USE IN removed} INDUSTRIAL RECIRCULATING WATER COOLING TOWERS, AIR WASHERS & EVAPORATIVE CONDENSERS

[Refer to Dilution Chart for number of tablets to use]

Treatment with this product is an effective way to control the growth of bacteria and algae in industrial recirculating water cooling towers, air washers and evaporative condensers.

1. Clean badly fouled systems prior to initiating treatment.
2. Initial Dosage – when the system is just noticeably fouled, add 3 ppm available chlorine [(refer to Dilution Chart)] to the system water. Repeat this dosage, if necessary, until a free available chlorine (FAC) level of 0.5 – 1.0 ppm is obtained, as determined by use of a reliable test kit.
3. Maintenance Dosage – to obtain a FAC of 0.5 – 1.0 ppm, add 0.5 ppm -1.0 ppm available chlorine [(refer to Dilution Chart)] daily or as needed.
4. Add this product to the system at a point where adequate flow is maintained. Variations in water temperature, chlorine demand and flow rate will affect the dissolution rate. Warmer seasons may require an upward adjustment of the FAC.

{AIR WASHERS section removed}

{FOR USE IN removed} SEWAGE TREATMENT [Not applicable in California]

1. Disinfection of Effluents: Disinfection does not occur instantaneously. A suitable detention basin must be provided to expose the sewage effluent to the effects of this product for a sufficient period of time (usually a minimum of 15 minutes). Where mechanical stirring or other agitation is not present, introduce product solution before primary or secondary sedimentation treatments, if these are used.

The amount of product solution required will vary, depending on the concentration and conditions of the final effluent. Treat the sewage before it has reached a septic state. About 30% of the chlorine demand of raw sewage is attributed to settle solids; 40% to suspended and colloidal solids; and 30% to dissolved solids.

Whenever possible, control disinfection by laboratory checks. Disinfection can be achieved when the chlorine residual (after 15 – 30 minutes contact time) is between 0.6 and 1.0 ppm.

Experience with different types of treated sewage may eventually establish a relationship between the residual chlorine content of the final effluent and the contact time necessary to ensure the desired bacteriological results. Once this relationship is established, the residual chlorine content and contact time may then become the controlling factors for operation. Perform occasional bacteriological checks as a safeguard.

In cases where sewage is to be temporarily disinfected before being diluted in a body of water, the following conditions will usually provide satisfactory protection against receiving waters' pollution:

- a. Raw sewage: 10 – 30 ppm available chlorine
- b. Primary treated sewage: 5 – 20 ppm available chlorine
- c. Sewage which has undergone primary and secondary treatment, or secondary alone: 2 – 5 ppm

Frequently perform bacteriological tests as a safeguard. The available chlorine level in the discharge effluent should be between 0.6 and 1.0 ppm or in accordance with and NPDES permit. For guidance contact the regional office of the EPA.

2. **Slime Control:** When ponding of the filters is excessive, stoppage of the distributing filter can occur. Add 10 ppm available chlorine [(refer to Dilution Chart)] into the effluent at a point above the filter nozzles. Repeat as necessary until the desired cleaning has been achieved. To maintain the system, intermittently apply a solution of this product to the dosing tanks, just ahead of the filter. The amount and frequency of the dosage needed to give satisfactory continuous operation of the trickling filters depends on the severity of the microbiological problem.
3. **Biological Oxygen Demand (B.O.D.) Reduction:** The condition can usually be avoided by applying the product solution to the effluent until a substantial residual is obtained. Apply at a point that will permit 10 – 20 minute contact time prior to discharging effluent into the stream. A dosage that leaves a residual available chlorine of about 0.2 ppm after a contact time of at least 10 minutes will afford a reduction of about 1/3 of the effluents B.O.D. Where more permanent or greater B.O.D. reduction is necessary dosing to high available chlorine residuals is recommended.
4. **Coagulation and Sedimentation:** A great deal of the finer divided suspended matter and most of the colloidal matter in sewage does not readily respond to plain sedimentation. The job of removing substantial portions of this kind of matter is usually accomplished either by chemical precipitation, by filtration or by the use of both processes. Chlorine improves sedimentation and coagulation in sewage treatment operations.
5. **Treating Effluent from Mobile Sewage Treatment Units (Including Marine and Recreational Vehicles):** Only human waste, toilet paper and water should enter the mobile sewage treatment unit. Solids are retained in the unit for later removal, while the liquid portion is filtered, disinfected and discharged. Product is placed in a flow-through container where the liquid effluent passes over them before being discharged.

Disinfection does not occur instantaneously. A suitable detention basin must be provided to expose the sewage effluent to the effects of this product for a sufficient period of time (usually a minimum of 15 minutes). Frequently test effluent as a safeguard. The available chlorine level in the discharge effluent should be between 0.6 and 1.0 ppm or in accordance with an NPDES permit. [Refer to Dilution Chart for number of tablets to use]

FOR USE THROUGHOUT FOOD AND BEVERAGE PROCESSING AND FOOD HANDLING OPERATIONS

[Refer to Dilution Chart for number of tablets to use]

This product is recommended for sanitizing all types of hard, non-porous equipment and utensils used in food processing and canning plants, bottling plants, breweries, fish processing plants, meat and poultry processing plants, milk handling and processing plants, restaurant and institutional dining establishments. Use a 100 ppm available chlorine solution [(refer to Dilution Chart)] to sanitize previously cleaned processing and packaging equipment. Allow at least a one minute contact time before draining. Allow adequate draining before contact with beverages.

To control the growth of bacteria in brewery pasteurizers, clean badly fouled systems before treatment. When the system is noticeably fouled, add 3 ppm available chlorine [(refer to Dilution Chart)] to system water. Repeat this dosage if necessary until the free available chlorine (FAC) level is 0.5 – 1.0 ppm, as determined by use of a reliable test kit. To maintain a FAC of 0.5 – 1.0 ppm, add 0.5 ppm – 1 ppm available chlorine [(refer to chart)] daily as needed. Add this product to the system at a point where adequate flow is maintained.

EGG PROCESSING PLANTS

[Refer to Dilution Chart for number of tablets to use]

Clean and destain egg shells prior to sanitizing. To clean egg shells, spray with a 90°F to 120°F 100 ppm available chlorine solution [(refer to Dilution Chart)]. Spray-rinse the cleaned eggs with warm potable water. Only clean, whole eggs may be sanitized. Dirty, cracked or punctured eggs may not be sanitized.

To destain egg shells, immerse the eggs in a 90°F to 120°F solution containing 100 ppm available chlorine [(refer to Dilution Chart)]. After destaining, the eggs must be cleaned by spraying with an acceptable cleaner. Follow the potable water rinse.

To sanitize clean shell eggs intended for food or food products, spray with a solution containing 100 ppm available chlorine [(refer to Dilution Chart)]. The solution must be equal to or warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs that have been sanitized with this chlorine compound may be broken for use in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. The solution must **not** be reused for sanitizing eggs.

Thoroughly clean and sanitize all egg cups, breaking knives, trays and other equipment that come into contact with "off" eggs. First, clean all equipment. Before placing back in use, spray with a solution containing 100 ppm available chlorine [(refer to Dilution Chart)]. Allow surfaces to completely drain before contact with egg product. To sanitize egg freezers and dryers (tanks, pipelines and pumps), use the spray or fog method of treatment (see **Application Methods**

section). This procedure is generally used to sanitize large, non-porous surfaces that have already been cleaned of physical soil.

Prepare a solution containing 100 ppm available chlorine [(refer to Dilution Chart)]. Heavily apply spray to all surfaces the eggs will touch. Thoroughly spray all treated surfaces, corners and turns. Allow at least a one minute contact time before draining. Allow equipment to drain adequately before contact with eggs.

SANITIZING HARD, NON-POROUS SURFACES, DISHES, GLASSES, FOOD PROCESSING EQUIPMENT AND UTENSILS, DAIRY AND BREWERY EQUIPMENT AND UTENSILS

[Refer to Dilution Chart for number of tablets to use]

This product is an effective sanitizing agent. Treatment with this product throughout food and beverage processing and food handling operations can help ensure the quality and safety of the final product.

Hand Washing of Items

1. Remove all gross food particles and soil by a preflush or prescrape and, when necessary, presoak treatment. Wash surfaces or objects with a good detergent or compatible cleaner, followed by a potable water rinse before application of the sanitizing solution.
2. Prepare a 100 ppm available chlorine sanitizing solution [(refer to Dilution Chart)].
3. Place equipment, utensils, dishes, glasses, etc. in the solution or spread the solution over the surface to be sanitized.
4. Allow to stand at least one minute, drain the excess solution from the surface and allow to air dry.
5. Fresh sanitizing solution must be prepared at least daily or more often if the solution becomes diluted or soiled.

Machine Washing of Items

1. Remove all gross food particles and soil by a preflush or prescrape and, when necessary, presoak treatment. Wash surfaces or objects with a good detergent or compatible cleaner, followed by a potable water rinse before application of the sanitizing solution.
2. Prepare a 100 ppm available chlorine solution [(refer to Dilution Chart)].
3. Add the solution to the feed tank of immersion or spray type machines that can provide at least one minute contact time for sanitizing dishes, glasses, food processing equipment or utensils. Allow to drain and air dry before use.
4. Promptly use the sanitizing solution. Prepared solutions cannot be reused for sanitizing but may be used for other purposes, such as cleaning.

ANIMAL HOUSING FACILITIES (Including Poultry Houses, Swine Confinement Facilities, Veterinary Clinics, Zoos and Farms)

The problem of odor control in poultry houses and other animal facilities is not completely solved by normal cleaning practices. The regular use of an efficient bactericide and deodorant is strongly recommended and often required by health authorities.

Remove all poultry or animals and feeds from premises, trucks, vehicles, coops, crates and enclosures. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a 1,300 ppm available chlorine solution [(refer to Dilution Chart)] for a period of five minutes. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, managers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

SHOE AND BOOT BATH SANITIZER

[To prevent cross contamination into treated animal areas and the packaging and storage areas of food plants.] Shoe and Boot baths containing one inch of freshly made 100 ppm available chlorine [(refer to Dilution Chart)] should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof [shoes] [and] [boots] and place into solution for at least one minute [60 seconds] prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears diluted or dirty.

MILK HANDLING AND PROCESSING EQUIPMENT

This product can be used on dairy farms and in plants processing milk, cream, ice cream and cheese. Rinse milking machines, utensils and all equipment with cold water to remove excess milk. Clean and rinse prior to sanitizing. To sanitize, spray or rinse all precleaned surfaces with 100 ppm available chlorine [(refer to Dilution Chart)]. Allow adequate draining before contact with dairy products.

It is important to clean out large deposits of milk or other organic matter before sanitizing. A sharp decline the available chlorine content of the sanitizer following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment and should be promptly investigated.

SANITIZING APPLICATION METHODS

Freshly prepare all sanitizing solutions. Test solutions during use to ensure the concentration does not drop below the recommended level. Keep in properly labeled containers to protect against contamination. Discard unused solutions.

Pressure Method of Sanitizing Equipment

This method is commonly used to sanitize closed systems, such as fluid milk cooling and handling equipment. It is also appropriate for sanitizing weigh tanks, coolers, short-time pasteurizers, pumps, homogenizers, fillers, sanitary piping and fittings, and bottle and can fillers. For mechanical operations, prepared solutions cannot be reused for sanitizing but may be used for other purposes, such as cleaning. For manual operations, fresh sanitizing solutions must be prepared at least daily or more often if the solution becomes diluted or soiled. First, disassemble and thoroughly clean all equipment immediately after use. Remove all gross food particles and

Note: Bracketed [] information is optional text. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

soil by a preflush or prescrape and, when necessary, presoak treatment. Wash surfaces or objects with a good detergent or compatible cleaner, followed by a potable water rinse before application of the sanitizing solution. Then place back in operating position. Prepare a solution containing 100 ppm available chlorine [(refer to Dilution Chart)] in a volume equal to 110% of capacity. Pump the solution through the system until it is filled with sanitizer and air excluded. Close final drain valves and hold under pressure for one minute to ensure proper contact with all surfaces. Remove a portion of the cleaning solution from the drainvalve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. {"Rinse system with potable water prior to use" removed.}

Spray, Fog or Foam Method of Sanitizing Equipment

Spray, fog or foam methods are generally used to sanitize large, non-porous surfaces that have already been freed of physical soil. It is appropriate for batch pasteurizers, holding tanks, weigh tanks, tank trucks and cars, vats, tile walls, ceilings and floors. Clean all surfaces before application of sanitizer. Prepare a solution containing 100 ppm available chlorine [(refer to Dilution Chart)]. Use pressure spraying, fogging or foaming equipment designed to resist chlorine-containing solutions (e.g. rubber-coated, plastic or stainless steel). When using any other kind of spraying equipment, always empty and thoroughly rinse the spray/fog/foam equipment with potable water immediately after treatment. Vacate all personnel from the room during spraying, fogging or foaming. Thoroughly spray, fog, or foam all accessible surfaces, corners and turns until wet. Allow at least a one minute contact time before draining. Allow excess solution to drain and air dry then place in service. Do not enter the area for at least two hours after treatment.

General Rinse Method

Solutions containing 100 ppm available chlorine [(refer to Dilution Chart)] sanitize plant floors, walls and ceilings, and also control odors in refrigerated areas and drain platforms. Generously flush or swab surfaces with the solution. After one minute contact time allow solution to drain and then air dry.

{the appropriate chart will be used on the market label for each tablet size and number of tablets in container}

Dilution Chart {4 g Tablets}			Dilution Chart {0.33g tablets }			Dilution Chart {17.68g tablets}			Dilution Chart {3.25g tablets}		
Solution (Available chlorine)	Tablets (4g or 0.14 oz. each)	Gallons of Water	Solution (Available chlorine)	Tablets (0.33g or 0.01oz each)	Gallons of Water	Solution (Available chlorine)	Tablets (17.68g or 0.62oz each)	Gallons of Water	Solution (Available chlorine)	Tablets (3.25g or 0.07 oz each)	Gallons of Water
0.5ppm	1	625	0.5ppm	1	55	0.5ppm			0.5ppm	2	625
	4	2,500		10	550		1	2,500		5	2,500
	8	5,000					2	5,000		10	5,000
	15	10,000					4	10,000		19	10,000
1ppm	1	325	1ppm	1	25	1ppm			1ppm	2	325
	2	650		5	135					3	650
	3	1,000		10	275		4	6,000		4	1,000
	30	10,000					7	10,000		37	10,000
3 ppm	1	100	3 ppm	11	100	3 ppm			3 ppm	2	100
	5	500		25	230		1	500		6	500
	9	1,000		55	500		2	1,000		11	1,000
	90	10,000					20	10,000			
4 ppm	6	500	4 ppm	73	500	4 ppm	3	1,000	4 ppm	8	500
10 ppm	15	500	10 ppm	2	5	10 ppm	7	1,000	10 ppm	19	500
100 ppm	1	3	100 ppm	1	1 quart	100 ppm	1	15	100 ppm	2	3
	3	10		4	1		3	40		4	10
	12	40								15	40
1,300ppm	4	1	1,300ppm	12	1 quart	1,300ppm	3	3	1,300ppm	5	1
	39	10		47	1		11	12		48	10

Note: Bracketed [] information is optional text. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

12/3
8/1/01

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: Keep product dry in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame.

Pesticide Disposal: Pesticide wastes are acutely 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.

{for tablets in plastic container}

Container Disposal: Do not reuse empty container. Thoroughly rinse empty container with water to dissolve all material before discarding in trash.

{for individually wrapped tablets in paper box}

Container Disposal: Throw tablet wrapper in trash. Outer container – dispose in trash.

{for individually wrapped tablets in plastic container}

Container Disposal: Throw tablet wrapper in trash. Outer container – Thoroughly rinse empty container before discarding in trash.

Emergency Handling

In case of contamination or decomposition do not reseal container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.