

748-138

04/06/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APR 06 2010

OFFICE OF
PREVENTION, PESTICIDE
AND TOXIC SUBSTANCE

J. Michael Kelley, Agent for PPG Industries, Inc.
c/o Toxcel
P.O. Box 363
7140 Heritage Village Plaza
Gainesville, VA. 20156

RE: Label Amendment Dated March 29, 2010
Product Name: Pittabs
EPA Registration Number: 748-138

Dear Mr. Kelley:

The Agency has reviewed your submission in accordance with continuing registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, and determined the action to be acceptable.

In summary, your request to update the label and revise the Storage and Disposal instructions in accordance with PR Notice 2007-4 is approved. A copy of your stamped accepted label is enclosed. Please submit a finished label for the file.

If you have questions concerning this letter, please contact Tom Luminello by telephone, (703) 308-8075, or by e-mail at luminello.tom@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Wanda Y. Henson".

Wanda Y. Henson
Acting Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510-P)

[EPA MASTER LABEL COPY]

PITABS

Calcium Hypochlorite Tablets or Dry Chlorinating Tablets
For Industrial Applications and Swimming Pool Use

EPA Reg. No. 748-138
EPA Est. No. 58401-IL-1

ACTIVE INGREDIENT:

Calcium Hypochlorite	68%
OTHER INGREDIENTS:	32%
TOTAL:	100%

Minimum 65% Available Chlorine

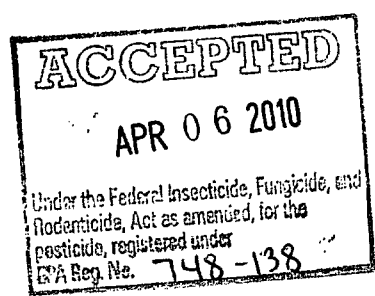
KEEP OUT OF REACH OF CHILDREN DANGER

Do not mix with any other chemicals, including any other pool chemicals of any kind.
 Mixing with other chemicals could cause a fire or explosion.
 Always add product to large quantities of water to fully dissolve product.
 Do not pour water into product, always add product to water
 Do not use with stabilized chlorine or bromine tablet chemical feeders.
 See additional precautionary statements on back label.

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 swallowed, call poison control center or doctor immediately for treatment advice. 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. If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. **Note to Physician,** probable mucosal damage may contraindicate the use of gastric lavage.
 Contact 1-412-434-4515 or your poison control center for 24-hour emergency medical treatment information. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Manufactured by
 PPG INDUSTRIES, INC.
 One PPG Place
 Pittsburgh, PA 15272
 Emergency Telephone Number: 1-412-434-4515

NET WT. XXX lbs. (XXX Kgs.)



[EPA MASTER LABEL COPY]

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER - Highly Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or going to the toilet. Remove and wash contaminated clothing and shoes before reuse. May be fatal if swallowed. Irritating to nose and throat. Avoid breathing dust.

[NOTE TO EPA: This PPE is required when irrigation/chemigation use is included on the label:]

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- A. Goggles or face shield
- B. Long-sleeved shirt and long pants
- C. Waterproof gloves
- D. Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

[NOTE TO EPA: This PPE is required for labels that include directions for use on "seeds sprouted for human consumption"]

Personal Protective Equipment (PPE):

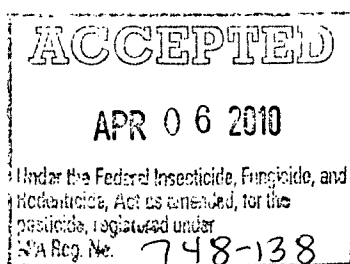
The following PPE is required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water.

Applicators and other handlers of the diluted (20,000 ppm solution) must wear the following.

- Coveralls over long-sleeved shirt and long pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

Mixers and Loaders of the concentrate product must wear:

- Coveralls over long-sleeved shirt and long pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical resistant apron when cleaning equipment, mixing or loading.
- Dust/mist filtering respirator (MSHA/NIOSH...D/M approval # prefix TC-21C).



Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

[NOTE TO EPA: The following statement will appear on package sizes 50 lbs or larger:]

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. 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

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containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

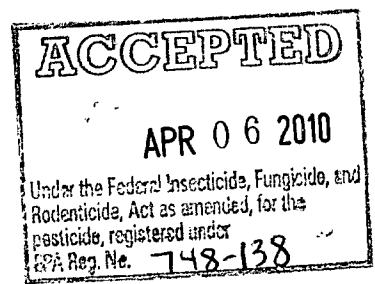
[NOTE TO EPA: The following statement will appear on package sizes less than 50 lbs:]

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms

PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent! Mix only with water. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Always add product to large quantities of water to dissolve product. Do not pour water into product. [The following statement shall not be used on small, single use packages: Use only a clean, dry utensil made of metal or plastic each time product is taken from the container.] Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Such use may cause violent reaction leading to fire or explosion. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary, to fully dissolve product.

[NOTE TO EPA: The following Optional Marketing Claims and Logos may be added to the product label:]

- Water Treating Agent
- Bactericide
- Algaecide
- Bleach
- Potable / Industrial Water Chlorination
- This product provides a steady source of available chlorine.
- Kills Bacteria, Controls Algae, Destroys Organic Contaminants
- "Now with Anti-Scale Additive" or "With Scale Inhibitor" or "Scale Inhibitor Formulation"
- Convenient and easy to use with the PPG Fountain Cup Adjustable Dispenser
- Controls odor
- Reduces BOD
- Reduces Hydrogen Sulfide odor
- For use in all types of irrigation water systems
- Beverage/Bottling Plants
- For industrial applications
- Fountain Cup System protects metal light fixtures and nozzles
- Fountain Cup hides behind fixtures
- Fountains look clean and clear
- Stop! Do not mix with other products or pre-dissolve before use



[EPA MASTER LABEL COPY]

Directions for Use

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

SWIMMING POOL USE

This calcium hypochlorite product in tablet form contains a minimum of 65% available chlorine. It is designed to dissolve slowly (up to 5 hours) and provide a steady source of available chlorine in swimming pools. This product helps to control the growth of algae and effectively kills many bacteria, thus helping to keep the pool in a sanitary condition.

Pool water is subject to a build-up of a wide variety of organic contaminants including swimmer wastes, such as perspiration, ammonia compounds, and natural and synthetic oils and lotions. If left untreated, the build-up of these contaminants can lead to the development of noxious odors, irritating water, and unsightly water clarity problems. These organic wastes serve as nutrients for bacteria, algae, and other organisms, and should be removed from the pool on a regular basis to prevent their build up. This product will effectively reduce organic contamination in swimming pool water resulting in increased water clarity.

USE DIRECTIONS:

For any application method you choose: No one can be in the pool when chemicals are being added directly to the pool. **Do not mix this product with other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" products. Mixing could cause a fire or explosion. Always add this product into large quantities of water to fully dissolve. Never add water into product.** Make sure to keep the pump and filter running during application and for at least 6 to 8 hours after application to allow for the best product dispersion. For best results, test your pool water prior to addition of this product and maintain pool water parameters in the ranges noted below.

This product will raise the pH of pool water. For best results, test your pool water prior to addition of this product. If your pH measures 7.4 or higher, adjust it downward so that it is between 7.2 to 7.4. This will help avoid clouding of water and allow for faster dispersion of the product.

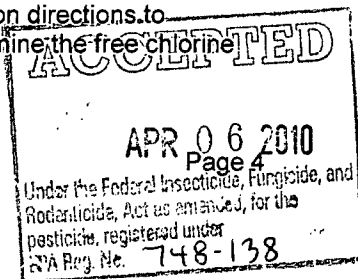
APPLICATION METHOD:

For best results use a dissolving basket, a floating feeder or add the tablets to a plastic leaf strainer in the surface skimmer. Remove any other tablets, other chemicals or debris before adding tablets. Do not permit tablets to contact plastic or steel pool linings. Do not throw the tablets directly into the pool. Superchlorination or shock treatment is best accomplished using fast dissolving granular calcium hypochlorite rather than calcium hypochlorite tablets. To use this product for shocking or superchlorination, put the tablets in the skimmer with the recirculation system running and allow at least 5 hours for the tablets to dissolve.

HOW TO APPLY TO POOLS:

REMINDER: Never add water to product. Always add product to large quantities of water to fully dissolve. Maintain operation of your pump and filter. Treatment should be done at night or during a period when the pool is not in use

Opening Pool/Initial Chlorination: Begin operation of your recirculation equipment. Balance the water by making certain the pool water parameters for pH, total alkalinity and water hardness are in their proper ranges, provided in Table 1. Follow "Shock Treatment/Superchlorination" application directions to superchlorinate the pool. Allow 30 minutes for the product to disperse, then determine the free chlorine



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residual using a pool test kit. If no residual is found, superchlorinate again. Repeat treatment, as needed, until the chlorine residual is 1.0 ppm. If a stabilizer is used, check and adjust stabilizer to proper level (10-20 ppm). Do not enter the water until the free chlorine residual is 4.0 ppm or less. Wait at least 4 hours, preferably overnight; then vacuum the pool bottom. Begin routine chlorination.

Routine Chlorination: The pH, total alkalinity, water hardness, and stabilizer concentration should be maintained at values recommended in Table 1 under "Regular Treatment for Pools in Use." Actual dosages of this product required to maintain the desired free chlorine residual will vary with sunlight, water temperature, bathing load, stabilizer concentration, water balance, and other factors. Use a test kit frequently to determine and maintain the proper free chlorine residual. Do not enter the pool until the free chlorine residual has dropped to 4.0 ppm or less as measured using your test kit.

Add 3-4 ounces of this product (1-2 ounces in stabilized pools) per 5,000 gallons of water daily or as often as needed to maintain the desired free chlorine residual whether the pool is in use or not.

For small changes in free chlorine residual once a free chlorine residual is detected, the addition of 1 ounce of this product to 5,000 gallons of water will raise the free chlorine residual approximately 1.0 ppm.

Shock Treatment / Superchlorination: Adjust pH between 7.2 and 7.4 prior to shocking or superchlorination. Add this product at night or when the pool is not in use. To prevent pool water problems, shock at least once per week during periods of heavy use or when water temperatures are above 80°F and once every two weeks in residential pools receiving normal usage. Maintain operation of the pump and filter. Do not enter the pool until the free chlorine residual has dropped to 4.0 ppm or less as measured using a suitable test kit. Between treatments with this product, continue to maintain the proper water balance and sanitizer level in your pool as recommended on the label of your normal pool sanitizer.

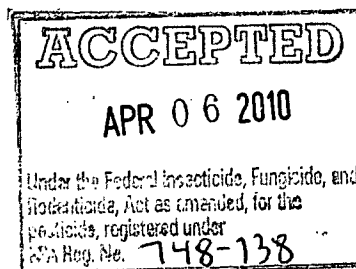
Add 10 ounces (40 tablets) of this product to every 5,000 gallons of water. Allow five hours for the tablets to dissolve.

ADDITIONAL INSTRUCTIONS FOR SWIMMING POOL CARE:

Regular Treatment for Pools in Use: Maintain pool water parameters in the ranges in Table 1 or at levels required by local regulations. This product will raise the pH of pool water. If your pH measures 7.4 or higher, adjust it downward to between 7.2 to 7.4. This will help avoid clouding of water and allow for faster dispersion of the product. Obtain and make use of a pool test kit to measure pH, free chlorine residual, total alkalinity, water hardness, and cyanuric acid concentration.

Table 1. Parameters for Water in Pools

Parameter	Test Frequency	Level
pH	Daily	7.2 to 7.4
Free Chlorine Residual	Daily	1 to 3 ppm in unstabilized pools. 2 to 4 ppm minimum in stabilized pools.
Total Alkalinity as CaCO ₃	Weekly	80-100 ppm
Stabilizer (Cyanuric Acid)	Monthly	10-20ppm
Water Hardness as CaCO ₃	Monthly	200 ppm minimum



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[NOTE TO EPA: For smaller packages, the following statement in paragraph form can be used instead of the above paragraph and table:]

Regular Treatment for Pools in Use: Maintain pool water parameters as follows: adjust pH to 7.2-7.4, free chlorine residual 1-4 ppm, total alkalinity 80-100ppm, stabilizer 10-20ppm, and water hardness at 200 ppm minimum. Obtain and make use of a pool test kit to measure the levels.

[NOTE TO EPA: Optional Statements for Pool Maintenance:]

Add Sustain® Summer Shield®, once each summer (150 days) to help chlorine protect your pool from algae growth all season long. Begin weekly additions of PPG Shield Energizer tablets to re-energize the protective Sustain® Summer Shield® and keep your pool water sparkling clear. You must follow the use directions of these products.

Proper Water Balance and Use of Stabilizer: Maintaining the proper pH, total alkalinity, and water hardness is necessary to obtain proper water balance, and help avoid problems such as cloudy water, scaling, corrosion and swimmer discomfort. Stabilizer (cyanuric acid) slows down the rate at which chlorine is destroyed by sunlight. Follow carefully the directions given with the product when using a stabilizer. Kits for testing free chlorine, pH, total alkalinity, water hardness, and cyanuric acid concentration are an integral part of a proper program for controlling the quality of your pool water. The kits are inexpensive and available from most pool chemical dealers.

How to determine the capacity of your pool:

- First:** Approximate the average depth in feet by adding the depth at the deep end to the depth at the shallow end and divide the total by two.
- Then:** For rectangular or square pools: Multiply length (ft) x width (ft) x average depth (ft) x 7.5 = capacity of pool in gallons.
For circular pools: Multiply diameter (ft) x diameter (ft) x average depth (ft) x 5.9 = capacity of pool in gallons.
For oval pools: Multiply long axis (ft) x short axis (ft) x average depth (ft) x 5.9 = capacity of pool in gallons.
- NOTE:** If pool has sloping sides, multiply total gallons calculated by 0.85 to arrive at the capacity of your pool.

End of Season: At the end of the end of the swimming pool season, or when the water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

HANDY REFERENCE GUIDE FOR SOLUTIONS:

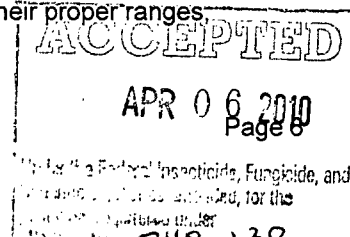
- * 1 lb. (16 ounces) of this product in 82,000 gallons of water is 1 ppm available chlorine.
- * 1.25 lbs. (20 ounces) of this product in 100 gallons of water is 1,000 ppm available chlorine.
- * 6.3 lbs. (100 ounces) of this product in 50 gallons of water is a 1% solution (10,000 ppm available chlorine).

4 tablets weigh approximately 1 oz. (28g). One standard U.S. measuring cup (240 cm³) equals approximately 8 oz. (227g) of tablets.

DECORATIVE AND INTERACTIVE FOUNTAINS AND WATER FEATURES

HOW TO APPLY TO DECORATIVE AND INTERACTIVE FOUNTAINS AND WATER FEATURES:

Initial Chlorination: Begin operation of your recirculation equipment. Balance the water by making certain the water parameters for pH, total alkalinity and water hardness are in their proper ranges.



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provided in Table 1. Shock treat the water. Follow label directions of the product used as recommended. Allow 30 minutes for the product to disperse, then determine the free chlorine residual using a pool test kit. If no residual is found, superchlorinate again. Repeat treatment, as needed, until the chlorine residual is 1.0 ppm. If a stabilizer is used, check and adjust stabilizer to proper level (10-20 ppm). Do not enter the water until the free chlorine residual is 4.0 ppm or less. Begin routine chlorination.

Routine Chlorination: The pH, total alkalinity, water hardness, and stabilizer concentration should be maintained at values recommended in Table 1 under "Regular Treatment." Actual dosages of this product required to maintain the desired free chlorine residual will vary with sunlight, water temperature, bathing load, stabilizer concentration, water balance, and other factors. Use a test kit frequently to determine and maintain the proper free chlorine residual.

Fill chlorinator with Pittabs. Adjust flow control valve to initial setting described in the PPG Chlorinator Instruction Manual. Adjust tablet delivery, as needed, to maintain a 1-3 ppm free available chlorine residual. Use a DPD test kit daily to determine and maintain the proper free chlorine residual. Do not use an OTO test kit.

How to adjust: Pittabs are designed to be dispensed using the PPG Chlorinators. To decrease tablet delivery rate: Reduce water flow through the chlorinator. To increase tablet delivery rate: Increase water flow through the chlorinator. Do not throw the tablets directly into the water or allow tablets to contact plastic or steel linings.

Fill the [skimmer dispenser/fountain cup adjustable dispenser] with Pittabs, adjust dispenser lid to half open and place the dispenser in the skimmer basket. Adjust tablet delivery, as needed, to maintain a 1-3 ppm free available chlorine residual. Run circulation system at least 12 hours each day. Re-fill skimmer dispenser with Pittabs each week. Use Sustain 3-way test strips or a DPD test kit daily at first and then at least once each week to determine and maintain the proper free chlorine residual. Do not use an OTO test kit.

How to adjust: Pittabs are designed to be dispensed using the [skimmer dispenser/fountain cup adjustable dispenser]. To decrease tablet delivery rate: Close the adjustable dispenser lid to reduce the flow of water to the tablet surface. To increase tablet delivery rate: 1) Fully open or remove adjustable dispenser lid, 2) Use a second skimmer dispenser, if you have space, 3) Increase circulation time, 4) Increase water flow through the skimmer. Do not throw the tablets directly into the water or allow tablets to contact plastic or steel linings.

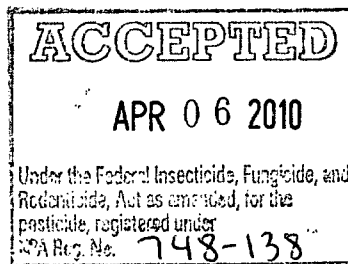
Special instructions when recommending use of chlorinating tablets in Fountain Cup Adjustable Dispenser Jars in skimmer baskets:

Chlorinating Tablets Fountain Cup - Adjustable Dispenser Jar

The Fountain Cup Adjustable Dispenser Jar contains two to three Pittabs and has a lid with an adjustable opening that screws on and off. Fountain Cup Instructions: (Reference the Directions for Use for Pittabs.)

1. Add Pittabs to the Fountain Cup adjustable dispenser jar.
2. Place lid on top of dispenser jar. Adjust the moveable insert to the desired open area. Hold insert in place while tightening lid.
3. Place dispenser in the skimmer basket, or in a hidden location within the fountain water.
4. Adjust open area as needed to maintain the free chlorine as desired.
5. Add more tablets when needed.

DANGER – Use only Pittabs in this dispenser jar. Do not use the jar with stabilized chlorine or bromine based tablets, granular products, or any other chemicals. Do not mix chemicals. Mixing chemicals could result in fire or explosion. See Pittabs product label for additional precautionary statements.



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ADDITIONAL INSTRUCTIONS FOR WATER FEATURES AND FOUNTAIN CARE:

Regular Treatment: Maintain water parameters in the ranges in Table 1 or at levels required by local regulations. This product will raise the pH of water. If your pH measures 7.4 or higher, adjust it downward to between 7.2 to 7.4. This will help avoid clouding of water and allow for faster dispersion of the product. Obtain and make use of a pool test kit to measure pH, free chlorine residual, total alkalinity, water hardness, and cyanuric acid concentration.

Table 1. Parameters for Water Features or Fountains

Parameter	Test Frequency	Level
pH	Daily	7.2 to 7.4
Free Chlorine Residual	Daily	1 to 3 ppm in unstabilized water. 2 to 4 ppm minimum in stabilized water.
Total Alkalinity as CaCO ₃	Weekly	80-100 ppm
Stabilizer (Cyanuric Acid)	Monthly	10-20ppm
Water Hardness as CaCO ₃	Monthly	200 ppm minimum

SPAS, HOT-TUBS, IMMERSION TANKS, etc.:

Spas / Hot-tubs: Apply 0.5 ounces of product per 500 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product. To maintain the water, apply 0.5 ounces of product per 500 gallons of water over the surface to maintain a chlorine concentration of 5 ppm. After each use, shock treat with 1.5 ounces of this product per 500 gallons of water to control odor and algae. During extended period of disuse, add 1.5 ounces of product daily per 500 gallons of water to maintain a 3 ppm chlorine concentration.

Hubbard and Immersion Tanks: Add 0.5 ounces of this product per 100 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 0.5 ounces to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.

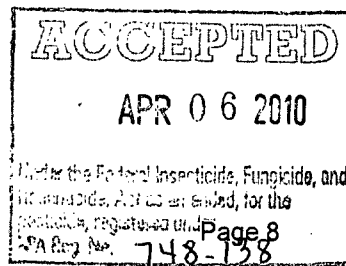
Hydrotherapy Tanks: Add 1 ounce of this product per 1000 gallons of water to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

OTHER USES:

Calcium Hypochlorite is also used in the sanitization of water systems, municipal water mains, sewage and industrial waste treatment, pulp bleaching, sanitization in the food industry, restaurants, dairies, and hospitals, odor and taste control in potable water systems, algae control in industrial cooling water systems, and general industrial sanitizations. For specific literature on these and other accepted uses, write to the address on the front label.

For specific literature on other accepted uses, contact PPG.

For a complete copy of the master label for this product, contact PPG or review the most current EPA stamped-accepted label available at www.epa.gov/pesticides/pestlabels.



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[NOTE TO EPA: The following are additional Industrial Use Instructions:]

DISINFECTION OF DRINKING WATER (POTABLE WATER)

PUBLIC WATER SYSTEMS

Public Systems: Mix a ratio of 1 ounce of this product to 6000 gallons of water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local Health Department for further details.

New Tanks, Basins, etc.: Remove all physical soil from surfaces. Place 4 ounces of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to service.

New Filter Sand: Apply 16 ounces of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

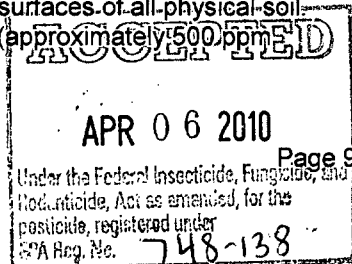
Reservoirs - Bacteria control: Contamination of reservoirs is an ever-present possibility. In order to keep reservoir water bacteriologically acceptable, it is necessary to test regularly and chlorinate sufficiently to maintain a residual of 0.2 ppm free available chlorine. This is equivalent to 1.2 ounces of calcium hypochlorite per 30,000 gallons of water after chlorine demand has been satisfied. Where contamination is caused by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir attains a 0.2 ppm available chlorine residual as determined by a chlorine test kit. Where contamination is from surface drainage, apply sufficient calcium hypochlorite directly to the reservoir to attain a 0.2 ppm available chlorine residual in all parts of the reservoir. Daily testing should be accomplished away from the water inlet. If samples must be taken near the inlet, allow them to stand at least 20 minutes before testing. Also, remember that chlorine demand will be higher during periods of heavy rainfall and extreme dryness or heat. Continuous feeding of calcium hypochlorite at the input source is usually the most effective means of maintaining an adequate chlorine residual. When applying calcium hypochlorite to surface water, take care to reach all parts of the reservoir with equal amounts of the product so that distribution is complete and equal throughout.

New and Newly Cleaned Reservoirs: New or recently cleaned reservoirs must be completely disinfected with calcium hypochlorite before use. Spray all parts and surfaces with a 0.5%, 5000 ppm solution (1 ounce calcium hypochlorite to 1 gallon of water). When the reservoir is filled, chlorinate as described above. NOTE: As a safety precaution, do not store calcium hypochlorite solution. When mixed, use immediately.

Mains: Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

New Wells: Flush the casing with a 50 ppm available chlorine solution of water containing 1 ounce of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

Existing Equipment: Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 4 ounces of this product for each 5 cubic feet capacity (approximately 500 ppm)



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available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 1 ounce of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

Reservoirs/Algae control: Rapid algae growth in reservoirs is an indication of increased chlorine demand. When algae become a problem, special action is necessary. There are several methods of treatment. One of these is to hypochlorinate streams feeding the reservoir. Suitable feeding points must be selected on each stream at least 50 yards upstream from the point of entry into the reservoir. Continuous chlorination is usually effective in destroying algae where a sufficient amount of sanitizer is fed to produce a chlorine residual of 0.2 to 0.5 ppm free available chlorine. Where continuous feeding is not possible, scheduled, intermittent feeding should be practiced. In doing so, broadcast calcium hypochlorite evenly over the surface of the reservoir, taking special care to treat shallows and edges. As it descends, the product dissolves, distributing a chlorinating action to all depths. Introduce a sufficient amount of calcium hypochlorite to provide a residual of from 0.2 to 1.5 ppm for up to 24 hours.

Small Treatment Plants: Calcium hypochlorite may be used as a disinfectant in water treatment plants when the system is too small to use gas chlorination equipment or to supplement well or reservoir chlorination. Please refer to the treatment instructions at the beginning of this section under "Public Systems."

Small Treatment Plants/Algae Control: Treatment plants also rely on granular calcium hypochlorite to add in algae control. As algae may be the source of many objectionable odors, cause mud balls and slime in filters, pipes and pumps, as well as reduce pipeline capacity, its control through chlorination is an important factor. The presence of algae is often indicated by a slimy, gelatinous film on the inside of pumps, lines and mixers, etc. It may be eliminated by adding a sufficient quantity of calcium hypochlorite to the forebay or pump well to obtain a 5.0 to 10.0 ppm residual chlorine reading after 20 minutes contact time. The dosage necessary to provide this reading will vary with conditions, i.e. hot weather will increase the need for treatment. Algae control must be verified by testing.

INDIVIDUAL SYSTEMS:

Dug Wells: Upon completion of the casing (lining) wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Contact your local Health Department for further details.

Drilled, Driven & Bored Wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

After the initial treatment, feed calcium hypochlorite into the intake line of the well pump. This also helps keep any filters free of slime. Automatic hypochlorinating equipment for this purpose is readily available and easy to use. If it is not possible to locate a feed at the intake line, feed calcium hypochlorite anywhere in the well pump discharge line. Feed sufficient calcium hypochlorite to produce a free chlorine residual of at least 0.2 ppm and no more than 0.6 ppm after a 20-minute contact period. Regular testing is necessary and a record of test readings should be kept.

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Flowing Artesian Wells: Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details. After initial treatment, follow the practice of maintaining a free chlorine residual of 0.2 ppm to 0.6 ppm in the water outlets after a minimum 20-minute contact period as directed previously.

Private Storage Tanks:

Bacteria Control: Contamination of tanks is an ever-present possibility. In order to keep potable tank water bacteriologically acceptable, it is necessary to test regularly and chlorinate sufficiently to maintain a residual of 0.2 ppm free available chlorine. This is equivalent to 0.2 ounces of calcium hypochlorite per 5000 gallons of water after chlorine demand has been satisfied. Where contamination is caused by water supply sources, establish hypochlorinating stations upstream of the tank. Chlorinate the inlet water until the entire tank attains a 0.2 ppm available chlorine residual as determined by a chlorine test kit. Daily testing should be accomplished away from the water inlet. If samples must be taken near the inlet, allow them to stand at least 20 minutes before testing. Also, remember that chlorine demand may be higher during periods of heavy rainfall and extreme dryness or heat. Continuous feeding of calcium hypochlorite at the input source is usually the most effective means of maintaining an adequate chlorine residual. When applying calcium hypochlorite to the water surface in the tank, take care to reach all parts of the tank with equal amounts of the product so that distribution is complete and equal throughout.

EMERGENCY DISINFECTION:

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 grain of this product to 1 gallon of water. One grain is approximately the size of the letter "O" in this sentence. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times.

Emergency Disinfection After Floods

Wells: Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1 ounce of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

Reservoirs: In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

Basins, tanks, flumes, etc.: Thoroughly clean all equipment, then apply 4 ounces of product per 5 cubic feet of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours, drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 1 ounce of this product for each 5 gallons of water (1000 ppm available chlorine). Allow water to stand for 2 to 4 hours, then flush and return to service.

Filters: When the sand filter needs replacement, apply 16 ounces of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 16 ounces per 20 square feet. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply

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16 ounces of this product per each 50 square feet, allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours, drain and proceed with normal backwashing.

Distribution system: Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after a 24-hour retention time. Use a chlorine test kit.

Emergency Disinfection After Fires

Cross connections or emergency connections: Hypochlorination or gravity feed equipment must be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

Emergency Disinfection After Droughts

Supplementary water supplies: Gravity or mechanical hypochlorite feeders must be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20-minute contact time. Use a chlorine test kit.

Water shipped in by tanks, tank cars, trucks, etc.: Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 0.6 ounce of this product for each 5 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

Emergency Disinfection After Main Breaks

Mains: Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low-pressure end of the new main section after a 24-hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

SEWAGE TREATMENT USES

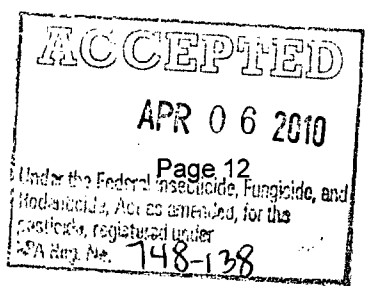
SEWAGE & WASTEWATER EFFLUENT TREATMENT:

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, to ensure that chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary waste water effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting waste water disinfection:

1. **Mixing:** It is imperative that the product and the waste water be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the waste water.
2. **Contacting:** Upon flash mixing, the flow through the system must be maintained.



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3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

Effluent slime control: Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 2 to 20 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 0.3 oz. of this product with 100 gallons of water.

Filter Beds – Slime Control: Remove the filter from service, drain it to a depth of 1 foot above the filter sand, and add 16 ounces of this product per 20 square feet evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing the filter.

SEPTIC TANKS:

To fill a residential, or small scale wastewater treatment chlorinator, remove tubes holding tablets, if applicable, and fill as follows:

1. Remove caps and rinse tubes. Clean with water.
2. Fill each tube to top, one tablet at a time.
3. Tablets must lie flat, or tubes will clog.
4. Replace caps and install tubes so they rest in channel in floor of chlorinator.
5. See Manufacturer's chlorinator brochures for additional instructions.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

B.O.D. REDUCTION:

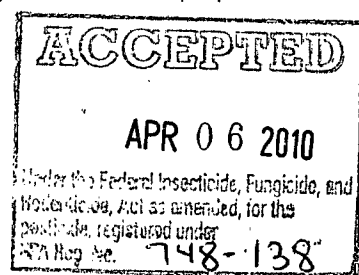
B.O.D., or Biochemical Oxygen Demand, is the quantity of oxygen required to oxidize the polluting substance to a biochemically inert material. As little as 1 ppm of chlorine may bring about a reduction of 2 to 3 ppm in B.O.D. Calcium hypochlorite for this purpose may be added at virtually any point in the system. To achieve maximum results in terms of desirable aerobic action and retardation of anaerobic decomposition, hypochlorination should be complete. The treatment will still be of value, however, even if the amount of calcium hypochlorite applied is less than the total amount which could be utilized.

ODOR CONTROL:

The most offensive odor encountered in sewage treatment is due to hydrogen sulfide. It is caused by the sulphate-splitting bacteria normally present in sewage. Hydrogen sulfide can be very effectively controlled by calcium hypochlorite hypochlorination of the fresh sewage, which destroys the sulfide-producing bacteria. If the treatment of fresh sewage is not practical, calcium hypochlorite may be added at any point where the odors become objectionable. The amount required will, however, be increased, as the available chlorine in calcium hypochlorite will react not only with hydrogen sulfide, but also with other bacteria and organic material. For a sulfide reduction of 1 ppm, from 8 to 10 ppm of available chlorine probably will be required.

AID IN FLOCCULATION:

The value of calcium hypochlorite's available chlorine as an aid in flocculation is due primarily to its oxidizing power – a property which is of particular value in sewage treatment because there is almost no oxygen in sewage. Hypochlorination with calcium hypochlorite is particularly helpful when iron salts are used as the primary flocculent. Ferric iron, in the absence of oxygen, tends to revert to ferrous iron, which is of little value as a precipitant. Calcium hypochlorite supplies sufficient oxygen to retard or prevent this change. It should be used just before the primary flocculent in a proportion of 3 to 5 ppm.



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NON-FOOD INDUSTRIAL WATER USES

PROCESS WATER SYSTEMS:

This product can be used for slime and algae control in process water treatment systems intended for cleaning metal prior to being coated. Add this product at a point in the system where it can be mixed uniformly. **Initial dose:** When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Repeat until control is achieved. **Subsequent dose:** When microbial control is evident, add 2 to 6 ounces of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 to 3 ppm available chlorine. Badly fouled system must be cleaned before treatment is begun.

**COOLING TOWER / EVAPORATIVE CONDENSER WATER;
PULP AND PAPER MILL PROCESS WATER SYSTEMS:**

Slug Feed Method

Initial dose: When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 2 ounces of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled system must be cleaned before treatment is begun.

Intermittent Feed Method

Initial dose: When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent dose: When microbial control is evident, add 2 ounces of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled system must be cleaned before treatment is begun.

Continuous Feed Method

Initial dose: When system is noticeably fouled, apply 2 to 4 tablets (10 to 20 oz.) of this product per 10,000 gallons of water in the system to obtain 5 to 10 PPM available chlorine.

Subsequent dose: Maintain this treatment level by starting a continuous feed using a tablet hypochlorinator. To dose use 1 tablet of this product (5 oz.) per 15,000 gallons of water lost by blowdown to maintain a 1 PPM residual. Badly fouled system must be cleaned before treatment is begun.

Briquettes or Tablets

Initial dose: Initially slug dose the system with 10 ounces of this product per 10,000 gallons of water in the system. Badly fouled system must be cleaned before treatment is begun.

Subsequent dose: When microbial control is evident, add 2 ounces of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled system must be cleaned before treatment is begun.

COOLING TOWER AND HEAT EXCHANGE SURFACE

A clogged or fouled system should be mechanically cleaned to remove all physical soil prior to beginning treatment. Initially, treat by adding enough calcium hypochlorite to provide 10 ppm available chlorine (2 ounces per 1000 gallons) as a shock dosage and circulate it thoroughly through the system. Then, for continuous preventive control of algae and slime growth, regularly add enough calcium hypochlorite to the recirculation system to maintain a free chlorine residual between 0.5 and 1.0 ppm. Other water condition factors, such as pH, should be controlled as recommended by the equipment manufacturer.

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PPG calcium hypochlorite tablets can serve an important role in control of Legionella bacteria in cooling water towers. A concentration of 2 ppm free available chlorine has been shown to be capable of killing free Legionella pneumophila bacteria. Legionella bacteria can, however, survive chlorination when shielded inside amoebae, other protozoa or slime, so it is important to have an overall Legionella control strategy that includes controlling the growth of these other organisms and microbial communities and limiting the supply of micronutrients that sustain such microbial growth. Regular chlorination with calcium hypochlorite can help to limit the supply of assimilable organic carbon (AOC) in the water. These recommendations are based on best practices from the industry, but are presumptive in nature. PPG calcium hypochlorite tablets have not been tested for effectiveness against Legionnaires Disease Bacteria (LDB). There is no evidence that chemical treatment will control the growth of LDB under actual operating conditions, reduce transmission of LDB, or prevent Legionnaires' Disease.

INSTITUTIONAL, COMMERCIAL, AND HOME USES:

FOOD CONTACT-SANITIZATION

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE METHOD AND IMMERSION METHOD

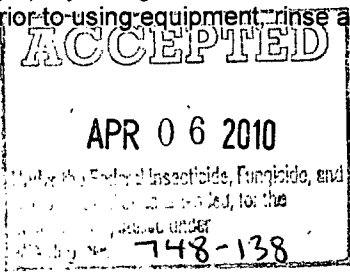
A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment [For Rinse Method add: surfaces] in the normal manner. [For Rinse Method state: Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes.] [For Immersion Method state: Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain.] If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

FLOW/PRESSURE METHOD AND CLEAN-IN-PLACE METHOD

[For Flow/Pressure Method start statement with: Disassemble equipment and thoroughly clean after use.] [For Clean-In-Place Method start statement with: Thoroughly clean equipment after use.] Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 ounce product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least [Flow/Pressure Method: 2 minutes] [Clean-In-Place Method: 10 minutes] to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

SPRAY/FOG METHOD

Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1 ounce product with 20 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 3 ounces product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution with a 200 ppm solution.



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SANITIZATION OF POROUS FOOD CONTACT SURFACES

RINSE METHOD - Prepare a 600 ppm solution by thoroughly mixing 3 ounces of this product with 20 gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

IMMERSION METHOD - Prepare a 600 ppm solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water. Clean equipment in the normal manner. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 ounces of this product with 10 gallons of water. Prior to using, immerse equipment in the 200 ppm sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse and do not soak equipment overnight.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 3 ounces product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water.

NON-FOOD CONTACT-SANITIZATION

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

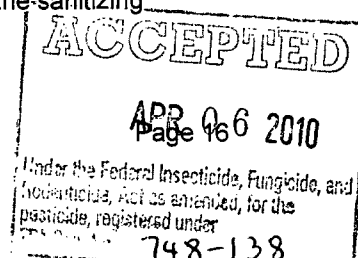
IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1 ounce product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing



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solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY/FOG METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 3 ounces of this product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

NON-FOOD CONTACT – DISINFECTION

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the solution to drain. Do not rinse equipment with water after treatment.

CONTROLLING MOLD OR MILDEW:

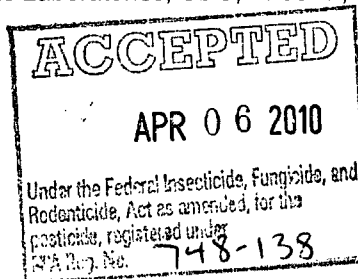
Calcium hypochlorite solutions containing 5000 ppm available chlorine will destroy mold and nonresidual mildew that grow in storage rooms and other areas within 10 to 15 minutes contact time. Brush or spray all precleaned walls, floors, ceilings and shelves with the solution. Rinse all metal surfaces immediately after treatment to prevent corrosion.

BATHROOMS:

Calcium hypochlorite solutions containing 5000 ppm available chlorine will sanitize and deodorize toilets, shower rooms, urinals, drains and other bathroom facilities. Toilets, shower rooms, urinals and drains should be cleaned and sprayed or flushed with the calcium hypochlorite solution on a regular basis. After treatment, let stand 10 minutes and rinse exposed metal surfaces with potable water to prevent corrosion. For toilet bowls, add 1 tablespoon of dry calcium hypochlorite to the residual water and swab.

SANITIZING DIALYSIS MACHINES:

Flush dialysis equipment thoroughly with water prior to sanitizing. Thoroughly dissolve 7 ounces of this product in 60 gallons of water to obtain at least a 600 ppm available chlorine solution. Use this solution in the hemodialysate system immediately allowing a minimum contact time of 15 minutes at 20 degrees C. Thereafter, drain the system of the sanitizing solution and thoroughly rinse with potable water. Discard and do not reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system. This product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program that includes bacteriological monitoring of the hemodialysate delivery system. This product is not recommended for use in hemodialysate or reverse osmosis (RO) membranes. Consult the guidelines for hemodialysate systems that are available from the Hepatitis Laboratories, CDC, Phoenix, AZ 85021.



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ASPHALT OR SEALED WOOD ROOFS AND SIDINGS

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution. Mix 1 ounce of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

LAUNDRY SANITIZER

HOUSEHOLD LAUNDRY SANITIZERS:

In Soaking Suds –Thoroughly mix 1 tablespoon of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes; then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

In Washing Suds – Thoroughly mix 1 tablespoon of this product to 10 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes; then add soap or detergent and start the wash/rinse cycle.

COMMERCIAL LAUNDRY SANITIZERS:

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 1 ounce of this product with 20 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

BEVERAGE PLANTS

BREWERIES

Calcium Hypochlorite solutions enable breweries to prevent bacterial growth and assure the purity and fresh taste of their products on a continuing basis. As a general sanitizer, calcium hypochlorite is doubly effective because of its dissolving action on beer stone, proteins, slime, yeast and other matter commonly found in brewery lines, tanks, hoses, etc. To prepare a stock cleaning and sanitizing solution, add 5 pounds of calcium hypochlorite to 3 gallons of warm water in a 20-gallon container. Introduce 3 pounds of soda ash and stir until dissolved. Dilute this mixture with cold water to make 15 gallons of solution, then add 5 pounds of PPG Pels® Caustic Soda Beads by following directions of that product. Stir to dissolve and allow to stand. When diluted 1-to-10 with water, this solution is an excellent cleaner/sanitizer for piping and equipment, steel, glazed tile and concrete vats.

Fermenting Tubs-Cyprus: Clean and rinse the tub thoroughly to remove all traces of oil, then fill with 200 ppm available chlorine solution to sanitize. Allow to stand 10-12 hours.

Washing Equipment: Sanitize the washing equipment by first thoroughly cleaning, then flushing all surfaces with calcium hypochlorite solution containing 200 ppm available chlorine.

Malting Areas: Floors and walls around malt tanks should be thoroughly washed once a week to prevent mold formation and odor. After cleaning, flush both floors and walls with a solution containing 0.25% (2500 ppm) available chlorine.

Aging Cellars: Spray the concrete walls of aging cellars regularly with a calcium hypochlorite solution of 0.5% (5000 ppm) available chlorine to destroy existing mold and mildew and prevent odor.

Pasteurizers: Slime and odors that develop in pocket-type pasteurizers can be controlled with regular use of a 1% (10000 ppm) available chlorine solution fed into the pasteurizer water supply by a hypochlorinator. A feed rate which provides a dosage of 0.5 to 1.0 ppm available chlorine at the overflow is required for optimum results. After draining and cleaning pasteurizers, the hypochlorinator should be used to provide fresh refill water with the proper chlorine residual.

Grain Steep Tanks: Calcium hypochlorite is a highly effective sanitizer in controlling mold growth in humid malt house conditions. Steep tanks should be cleaned first, then sprayed with a 1.5 to 2.0% (15000 to 20000 ppm) available chlorine solution. Allow to stand 30 minutes. The walls of concrete germination compartments should also be cleaned and treated as above. The perforated metal floors of germination compartments should be sprayed with high-pressure water for thorough cleaning and then

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covered at a rate of 0.15 oz. of dry calcium hypochlorite per square foot of wet floor. (A clean, dry, uncontaminated broadcaster or spreading device may be used effectively.) Allow the coating to stand for 30 minutes; rinse thoroughly with potable water before putting equipment in service.

Water Supplies: Calcium hypochlorite solutions containing 1% (10000 ppm) available chlorine will properly sanitize plant water used to produce beer. The calcium hypochlorite solution must be introduced into the water supply by a hypochlorinator. An available chlorine residual of 0.2 to 0.6 ppm must be maintained throughout the system at all times. Be sure to dechlorinate the water before it is used to process beer.

CARBONATED BEVERAGE PLANTS

Water Supplies: Available plant water supplies used to produce carbonated beverages may be properly sanitized by introducing solution of 1% (10000 ppm) available chlorine. The solution should be introduced by a hypochlorinator and adjusted to supply an available chlorine residual of 0.2 to 0.6 ppm at all times. Be sure to dechlorinate the water before it is used to process beverages.

Manufacturing Equipment: The use of calcium hypochlorite is a reliable and economical way to sanitize equipment and control the quality and taste of carbonated beverages. Before bottling operations start up, feed a 200 ppm available chlorine solution through all pumps, lines and fillers to eliminate bacteria. Clean surfaces before treatment. After each bottling operation, thoroughly spray syrup tanks with 200 ppm available chlorine solution, and let stand for 30 minutes.

CIDER PLANTS

Even when stored under cold conditions, sweet cider is particularly susceptible to fungus growth, which cause spoilage. As a preventive, sanitize each cask for a period of two minutes with a 200 ppm available chlorine solution, before use. Clean thoroughly first, then rinse each cask with the solution.

WINERIES

Plant Sanitation: Calcium hypochlorite will sanitize and prevent contamination in wineries to ensure product quality. Following each run, clean the entire plant area and its equipment. Immediately before the next run, sanitize with calcium hypochlorite as follows: Rinse nonporous wall surfaces, floors and equipment with a calcium hypochlorite solution containing 500 ppm available chlorine. Let stand for 10 minutes. Porous surfaces (wood, concrete, etc.) should be scrubbed or sprayed with a 1000 ppm available chlorine solution. Let stand 10 minutes. Storage vessels, fermenting vats, casks, presses and grape crushers should be cleaned of physical soil thoroughly before treatment. Rinse or spray with calcium hypochlorite solution containing 200 ppm available chlorine. Let stand 10 minutes.

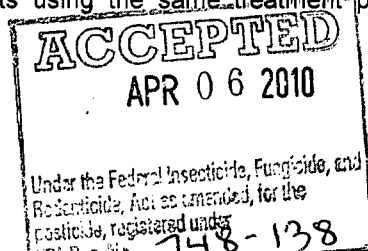
Mold Control: Mold growth should be treated on discovery with calcium hypochlorite to prevent further spreading. Spray the affected surfaces with a calcium hypochlorite solution providing 0.5% (5000 ppm) available chlorine. Heavy growth may require scrubbing and/or repeated applications.

Storage And Filling Tanks: Disinfect storage and filling tanks with calcium hypochlorite to maintain a high level of product quality. After a run and before refilling tanks, they should be thoroughly disinfected with calcium hypochlorite. For wooden or nonporous tanks, first pre-clean then fill with calcium hypochlorite solutions containing 600 ppm available chlorine. Solutions should stand for at least 10 minutes. Then, rinse tanks with potable water for a period of 2 minutes immediately before refilling. Unused tanks and vats should be kept sanitized with calcium hypochlorite. Fill each with water and dry calcium hypochlorite to obtain a residual of approximately 15 ppm available chlorine. Test every week and repeat treatment if residual falls below 2 ppm.

Press Cloths: Press cloths contaminated with bacteria or organic matter must be treated with calcium hypochlorite solutions to neutralize microorganisms and prevent spreading. After use, wash cloths thoroughly, then soak as follows: For every 100 pounds dry weight of the cloth, add 2 oz. dry calcium hypochlorite to 60 gallons of water. Soak for 15 minutes.

GRAPE JUICE PLANTS

Sanitize equipment and problem areas of grape juice plants using the same treatment procedures recommended for wineries.



FOOD PROCESSING PLANTS

CANNERIES

Hot, freshly-packed cans are often cooled by immersion in cold water. This creates a partial vacuum in the container which may allow the cooling water to enter through seams or pin holes. If bacteria are present in the water, contents may become contaminated and spoil. Calcium hypochlorite solutions providing 1% (10000 ppm) available chlorine should be fed into cooling tanks or channels by an elevated tank to provide a concentration of 2 ppm available chlorine. The flow may be controlled with a non-corroding valve or a pinch-stop on a rubber hose. Feed points should be located to provide uniform distribution of solution throughout the entire system. Long and narrow tanks may require the solution to be fed at two points to ensure proper distribution. Test the cooling water for available chlorine. If a residual of 2 ppm is present throughout the system, the water is properly sanitized. Test for available chlorine every hour until dosage requirements are established. Thereafter, check every 2 or 3 hours to ascertain that an available chlorine residual of 2 ppm is maintained throughout the cooling system.

Water Supplies: One percent chlorine solutions will effectively purify the water supply in canneries. Feed the solution into the water supply by a hypochlorinator on the intake side of the pump. An available chlorine residual of 0.2 to 0.6 ppm must be maintained throughout the water distribution system to assure adequate purification. Regular testing should be initiated to assure proper chlorine residuals are present at all times.

Wastes: Solutions containing 1000 ppm available chlorine control odors from dry food waste disposed in dumps or collecting points. Accumulations of waste should be sprayed or soaked with calcium hypochlorite solution daily to eliminate odors. Calcium hypochlorite solutions applied by continuous treatment to maintain a residual of 15 to 25 ppm will control odors in food waste being removed by water suspension.

MEAT AND POULTRY PLANTS

For use in federally inspected meat and poultry plants.

Chlorinating potable water treatment compounds.

Chlorine may be present in processing water of meat and poultry plants at concentrations up to 5 parts per million calculated as available chlorine. Also, chlorine may be present in poultry chiller intake water, and in carcass wash water at concentrations up to 50 parts per million calculated as available chlorine. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained.

Cooling and retort water treatment compounds.

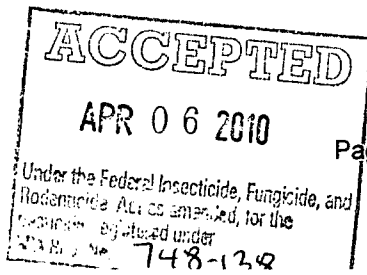
This product may be added to water used to heat and cool containers of meat and poultry products to prevent staining of containers and to control corrosion and deposit formation on surfaces of processing equipment. The amount used should be the minimum sufficient for the purpose.

Calcium hypochlorite solutions providing 1% (10000 ppm) available chlorine should be fed into tanks or channels by an elevated tank to provide a concentration of 2 ppm available chlorine. The flow may be controlled with a noncorroding valve or a pinch-stop on a rubber hose.

Feed points should be located to provide uniform distribution of solution throughout the entire system. Long and narrow tanks may require the solution to be fed at two points to ensure proper distribution.

Test the water for available chlorine. If a residual of 2 ppm is present throughout the system, the water is properly sanitized.

Test for available chlorine every hour until dosage requirements are established. Thereafter, check every 2 or 3 hours to ascertain that an available chlorine residual of 2 ppm is maintained throughout the system.



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This product may be used for treating boilers, steam lines, and/or cooling systems where neither the treated water nor the steam produced may contact edible products. This does not include compounds added to water used to heat and cool containers of meat and poultry products.

A clogged or fouled system should be mechanically cleaned to remove all physical soil prior to beginning treatment. Initially, treat by adding enough calcium hypochlorite to provide 10 ppm available chlorine (2 ounces per 1000 gallons) as a shock dosage and circulate it thoroughly through the system.

Then, for continuous preventative control of algae and slime growth, regularly add enough calcium hypochlorite to the recirculation system to maintain a 1.0 ppm free chlorine residual.

Other water condition factors, such as pH, should be controlled as recommended by the equipment manufacturer.

Sanitization, Disinfection and Odor Control:

An effective general sanitizer or disinfectant, calcium hypochlorite solutions also provide odor control in meat processing plants.

Killing Rooms: Disinfect the entire killing room with calcium hypochlorite solution to prevent the contamination of meat and the development of offensive odors. Scrub all walls and floors completely. Spray thoroughly with a solution containing 5000 ppm available chlorine. Drains and traps through which blood passes should be flushed thoroughly with water and flushed with solution containing 5000 ppm available chlorine. Allow this solution to stand overnight, then flush.

Inedible Rooms: Solutions containing 1000 ppm available chlorine will properly disinfect inedible rooms, prevent odors and improve the handling qualities of hides and other marketable items. Thoroughly clean inedible rooms on a regular basis. After cleaning, spray the tank house, the press rooms and the hide rooms generously with the calcium hypochlorite solution.

Edible Rooms: Calcium hypochlorite solutions containing 1000 ppm available chlorine will disinfect and control bacteria in refrigerating, curing, and processing areas to prevent taste and color problems in products. Thoroughly clean all edible rooms on a regular basis. After cleaning, room surfaces and equipment should be sprayed well with 1000 ppm solution for 10 minutes. Rinse with 200 ppm available chlorine solution for a period of 2 minutes.

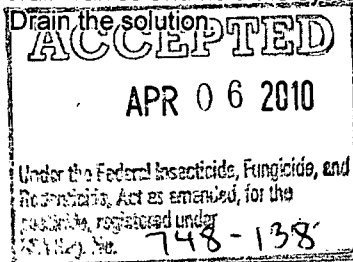
Equipment and Utensils: To prevent contamination, sanitize all equipment and utensils that came in contact with meat with a solution containing 200 ppm available chlorine. Clean equipment and utensils thoroughly, removing all fat and grease. Spray or rinse with solution. Let stand 2 minutes.

Locker Rooms, Elevator Pits and Toilets: Disinfect and deodorize locker rooms, elevator pits and toilets with a calcium hypochlorite solution containing 5000 ppm available chlorine. Locker rooms, shower rooms, toilets, urinals and drains should be cleaned, then sprayed or flushed with the solution on a regular basis. After treatment, let stand 10 minutes, then rinse exposed surfaces with potable water to prevent corrosion. Add 1 level tablespoon of calcium hypochlorite to the residual water of toilet bowls and swab.

DAIRY INDUSTRIES (Creameries, Ice Cream Factories, Cheese Factories, and Milk Plants)

Calcium hypochlorite solutions provide an effective, economical method of sanitizing processing equipment and problem areas in creameries, ice cream factories, cheese factories and milk plants. To prevent contamination of the product, apply calcium hypochlorite solutions to every surface the product will touch.

Pressure Sanitizing Equipment: Pressure is commonly used to sanitize closed systems, such as fluid milk cooling and handling equipment. The pressure method is also appropriate for sanitizing weight tanks, coolers, short-time pasteurizers, pumps, homogenizers, fillers, sanitary piping and fittings, and bottle and can fillers. Immediately after use, clean all equipment thoroughly, then place back in operating position. Prepare a sufficient amount of a calcium hypochlorite solution containing 200 ppm available chlorine to fill the equipment. (Allow a 10% excess for waste.) Pump the calcium hypochlorite solution through the system until it is filled and air is excluded. Close final drain valves and hold the system under pressure for 2 minutes to ensure proper contact with all surfaces.



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Spray Sanitizing Equipment: A spray (or fog) method is generally used to sanitize large, nonporous surfaces which have been freed of physical soil and thoroughly cleaned. It is appropriate for batch pasteurizers, holding tanks, weigh tanks, tank trucks and cars, vats, tile walls, ceilings and floors. Prepare a solution containing 200 ppm available chlorine. Use pressure spraying or fogging equipment designed to resist hypochlorite solutions (rubber-coated, plastic or stainless steel). When using other types of spraying equipment, empty and rinse thoroughly with fresh water immediately following treatment. Heavily spray or fog all surfaces the product will contact. All surfaces, corners and turns must be thoroughly coated. Allow excess solution to drain off, then place in service.

Water Supplies: Calcium hypochlorite solutions containing 1% (10000 ppm) available chlorine will disinfect water supplies used in the production of dairy products. The solution should be prepared using the following procedure: Mix 3.75 pounds of calcium hypochlorite into a 30-gallon plastic container 1/3 full of warm water. Add 3 pounds of light soda ash, stir thoroughly and dilute to 30 gallons. Add this solution to the water supply and let stand 20 minutes. The water supply has been sanitized when a 0.2 ppm of available chlorine is present.

General Sanitizing: Sanitize plant floors, walls and ceilings, and control odors in refrigerated areas and on drain platforms with a 1000 ppm calcium hypochlorite solution. Flush or swab surfaces generously with solution. Allow to stand 2 minutes.

Controlling Mold and Mildew: Control mold and nonresidual mildew that often grows in cheese aging rooms, storage rooms and other areas with a calcium hypochlorite solution of 5000 ppm available chlorine. Brush or spray all precleaned walls, floors, ceilings and shelves with the solution. Then, rinse all metal surfaces immediately to prevent corrosion.

Wastes: Calcium hypochlorite solutions containing 15 to 25 ppm available chlorine provide odor control of dairy plant waste. An overflow-type retention basin, flume or outfall of sufficient length is necessary to provide required contact time and mixing. For continuous treatment, calcium hypochlorite is introduced by a hypochlorinator capable of feeding the solution in proportion to waste flow. The hypochlorinator should be located near the point where waste leaves the plant building, followed by baffles for agitation. Batch waste should be impounded and treated with calcium hypochlorite solution which provides a residual of 15 to 25 ppm available chlorine.

FOOD PROCESSING/PACKING

Fruit & Vegetable Washing: Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 ounce of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for two minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging. (Refer to the "Table of Recommended Levels and Use Dilutions for Available Chlorine" for specific commodities," below.)

Commodity Fruit & Vegetable Treatment: Wash fruits and vegetables to remove organic matter, then treat as noted below.

**Recommended Levels and Use Dilutions for Available Chlorine
(This table is for 68% - 73% nominal available chlorine products)**

Commodity	Usage Dilution dry oz. added to 250 gal. of water	(ppm) Available Chlorine	Contact Time
Apple	7.7 - 10.3	150 - 200	45-90 sec.(dump tank) 5-15 sec. (spray)
Artichoke	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Asparagus	6.4 - 7.7	125 - 150	5-15 sec. (spray) 20-30 min.(hydrocooler)
Brussels Sprouts	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Carrots	5.1 - 10.3	100 - 200	1-5 min. (dump tank) 1-5 min. (flume)

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Cauliflower	15.4 - 20.5	300 - 400	5-15 sec. (spray)
Celery	5.1 - 5.7	100 - 110	5-15 sec. (spray)
Cherry	3.9 - 5.1	75 - 100	5-15 sec. (spray)
Chopped Cabbage ¹	4.1 - 5.1	80 - 100	5-15 sec. (spray)
Chopped Lettuce ¹	4.1 - 5.1	80 - 100	5-15 sec. (spray)
Citrus Fruits	1.3 - 10.3	40 - 75 30 - 50 100 - 200	5-15 sec. (spray) 2-3 min. (dump tank) 3-5 min. (drench)
Cucumbers	15.4 - 18.0	300 - 350	5-15 sec. (spray)
Green Onions	3.9 - 6.2	75 - 120	5-15 sec. (spray)
Melons	5.1 - 7.7	100 - 150 30 - 75	5-15 sec. (spray) 20-30 min. (hydrocooler)
Peaches, Nectarines and Plums	2.6 - 5.1	50 - 100	5-15 sec. (spray)
Pears (without buffer)	10.3 - 15.4	200 - 300	2-3 min. (dump tank)
Peppers	15.4 - 20.5 5.1 - 6.9	300 - 400 100 - 135	5-15 sec. (spray) 2-5 min. (dump tank)
Potatoes	3.3 - 6.4	65 - 125	2-5 min. (dump tank) (30-100ppm) 2-5 min. (flume) (200-300ppm) 5-30 sec. (spray) (100-200ppm)
Radishes	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Stone fruit	1.5 - 3.9	30 - 75	20-30 min. (hydrocooler)
Tomatoes	15.4 - 18.0	300 - 350	2-3 min (tank) (200-350 ppm) 5-15 sec. (spray) (100-150ppm)
Spinach	4.1-5.1	80-100	5-15 sec. (spray)
Broccoli	15.4-20.5	300-400	5-15 sec. (spray)
Pecans	50	1000	10 minutes

¹After treatment the adhering water must be removed by a centrifugation process.

Pecan Cracking And Bleaching: Prepare a 1000 ppm available chlorine soaking solution by adding 1 ounce of this product for each 5 gallons of water to obtain a 1000 ppm available chlorine content. Soak for a minimum of 10 minutes. After removal, age pecans for 24 hours. Before bleaching, pecans are placed in a rotary cleaner where they are washed, drained, and soaked in a 2% sulfuric acid bath at 80 to 90 degrees F for one minute. Transfer to a solution containing 107 ounces of this product for each 100 gallons of water (5000 ppm). After 4 to 8 minutes, they are drained and washed in a 1% sulfuric acid bath at 80 to 90°F. They are then dried.

Shell Egg Cleaning

Wash eggs promptly after gathering. Water with an iron content in excess of 2 ppm shall not be used unless equipment capable of removing the excess iron is installed on the water system. Wash water temperature should be 90° F or higher. Maintain the wash water at a temperature which is at least 20° F warmer than the temperature of the eggs to be washed. Spray rinse washed eggs with warm potable water containing an approved sanitizing compound. Eggs should be reasonably dry before casing or breaking.

Shell Egg Destainers

The destainer solution must be at least 20° F warmer than the eggs with a minimum solution temperature of 90° F. Total elapsed time in the destainer solution may not exceed 5 minutes. Eggs are to be rewashed and spray rinsed after destaining. Destainer solution should be replaced daily or whenever it becomes dirty. Destaining is to be done after initial washing has been completed. It is recommended that all eggs be shell protected after they have been destained.

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Food Egg Sanitization: Thoroughly clean all eggs. Thoroughly mix 0.8 ounce of this product with 20 gallons of warm water to product a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solutions should not be reused to sanitize eggs.

AQUACULTURE USES

Fish Ponds: Remove all fish from ponds prior to treatment. Thereafter, thoroughly mix 20 ounces of this product for each 10,000 gallons of pond water to obtain 10 ppm available chlorine. Repeat the treatment if the available chlorine level is below 1 ppm after 5 minutes. Return fish to the pond after the available chlorine level reaches zero.

Fish Pond Equipment: Thoroughly clean all equipment prior to treatment. Thoroughly mix 0.8 ounce of this product to 20 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

Maine Lobster Equipment: Remove lobster, seaweed, etc. from ponds prior to treatment. Drain the pond and thoroughly mix 1200 ounces (77 pounds) of this product to each 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dam are treated with the product. Permit high tide to fill the pond and then close gates. Allow water to stand 2 to 3 days until the available chlorine level reaches zero. Open the gates and allow two tidal cycles to flush the pond before returning lobsters to the pond.

Conditioning Live Oysters (Not for Use in California): Thoroughly mix 1 ounce of this product to 10,000 gallons of water at 50 to 70°F to obtain 0.5 ppm available chlorine. Expose the oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat the entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

Control Of Scavengers in Fish Hatchery Ponds: Prepare a solution containing 200 ppm of available chlorine by mixing 0.4 ounces of product with 10 gallons of water. Pour into drained pond potholes and repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to zero ppm, as determined by a test kit.

Boat Bottoms (Not for Use in California):

Boat Hulls: To control slime on boat hulls, sling a plastic tarp under the boat, retaining enough water to cover the fouled bottom area. Do not allow additional water to entire enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 3.5 ounces of this product to the enclosed water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a test kit.

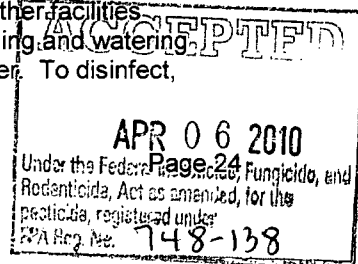
Artificial Sand Beaches:

To sanitize the sand, spray a 500 ppm available chlorine solution containing 0.1 ounce of this product per gallon of water at frequent intervals. Small areas can be sprinkled with a watering can.

AGRICULTURAL USES:

FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures, vehicles. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities 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,



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saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. A 1000 ppm solution can be made by thoroughly mixing 2 ounces of this product with 10 gallons of water. Immerse all halters, ropes, and other equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate the buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

POULTRY PLANTS

Poultry Drinking Water: Spray or flush with a solution containing 1 ounce of this product for every gallon of water (5000 ppm). Treat poultry drinking water to a dosage of 1 to 5 ppm available chlorine by adding 0.2 to 1 ounces of this product per 1000 gallons of water.

HARVESTED POTATOES/SWEET POTATOES

Post-Harvest Protection – Harvested Potatoes: Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per tons of potatoes. Thoroughly mix 1 ounce of this product to 10 gallons of water to obtain 500 ppm available chlorine.

Post-Harvest Roots – Harvested Sweet Potatoes: To control and reduce the spread of soft rot-causing organisms in water and on sweet potatoes (*Ipomoea batatas*), spray or dip the potatoes with a 150 to 500 ppm solution for 2 to 5 minutes. Thoroughly mix 0.3 to 1 ounces of this product per 10 gallons of water to obtain this solution. Monitor the chlorine concentration and change the solution after one hour or as needed.

BEE CELLS AND BOARDS

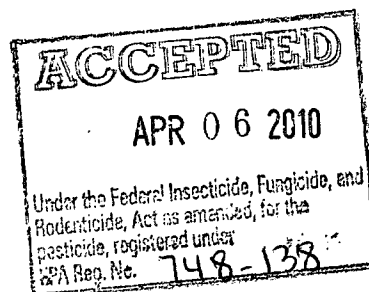
Disinfect leaf cutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours, or until no chlorine odor can be detected. This solution is made by thoroughly mixing ¼ teaspoon of this product to 200 gallons of water. Bee domiciles are disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated.

MUSHROOMS

To control bacterial blotch (*Pseudomonas tolosii*), apply a 100 to 200 ppm solution prior to watering mushroom production surfaces. This solution may be made by mixing 0.2 to 0.4 ounces of this product with 10 gallons of water. First application should begin when pins form, and thereafter between breaks on a need basis depending on the occurrence of bacterial blotch. This product may be applied directly to pins to control small infection foci. Apply 1.5 to 2.0 ounces per square foot of growing space.

SEEDS

Seeds (for planting): To control bacterial spot (*Xanthomonas vesticatoris*) on pimentos seeds, initially remove moist seeds from ripe fruits. To control surface fungi and bacteria on tomato seeds, initially wash seeds. Immediately soak seeds in 39,000 ppm solution for 15 minutes with continuous agitation. After treatment, rinse seeds in potable water for 15 minutes. Dry seeds to normal moisture. Make this solution by mixing 8 ounces of this product with 1 gallon of water.



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SEEDS FOR SPROUTING AS FOOD FOR HUMAN CONSUMPTION:

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the areas during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

AGRICULTURAL USE REQUIREMENTS:
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirement for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-Entry Interval (REI) of 12 hours.

There are no posting or notification requirements when using this product.

Personal Protective Equipment (PPE) must be worn as described under the "Precautionary Statements" section of this label.

While this treatment may reduce populations of bacteria on seeds intended for sprout production, it may not eliminate these organisms on the seeds. Additionally, treatment may not reduce or eliminate these organisms on the final sprouts.

Dosage: In a well-ventilated area, prepare a 2% calcium hypochlorite solution (20,000 ppm available chlorine) by dissolving 4.1 ounces of 68% nominal product into 1 gallon of potable water. Below is a table for preparing various amounts of 68% nominal product treatment solutions.

Available Chlorine		Gallons of Water					
%	ppm	1	5	15	30	50	100
2.0	20,000	4.1 ozs.	1 lb. 5 ozs.	3 lbs. 13 ozs.	7 lbs. 11 ozs.	12 lbs. 13 ozs.	25 lbs. 10 ozs.

Frequency/Timing of Application: Prewash seeds with potable water for at least 5 minutes. Treat pre-washed seeds once by soaking 5 pounds of seeds in 1 gallon of a 2% (20000 ppm) available chlorine solution for 15 minutes at room temperature with continuous agitation. After treatment, drain the solution and rinse the treated seeds thoroughly with potable water for 10 minutes (changing the water several times as necessary). Prepare fresh solution for each batch of seeds.

Restricted Entry Interval (REI): 12 hours
 [The USEPA has determined that this REI applies when the calcium hypochlorite is sprayed on the benches or areas around the soaking containers. Note, the REI is not applicable when the disinfectant is applied directly to the raw commodity (seeds) by soaking in a container/bin. There are no re-entry interval concerns when treating pests in this manner (soaking).]

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IRRIGATION AND CHEMIGATION SYSTEMS

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the areas during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

AGRICULTURAL USE REQUIREMENTS:
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirement for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

The Restricted-Entry Interval (REI) is 0 days when using this product.

There are no posting or notification requirements when using this product.

Personal Protective Equipment (PPE) must be worn as described under the "Precautionary Statements" section of this label.

DIRECTIONS FOR THE CONTROL OF BACTERIA, ALGAE, SLIME BUILD-UP AND CLOGGING IN SPECIFIED IRRIGATION SYSTEMS

Directions are for the control of bacteria, algae, water molds, and slime inside agricultural irrigation systems only.

This product may be mixed with water to produce a chlorine solution. To produce a 0.5% available chlorine solution, add 1 oz. of this product to one (1) gallon of water. This solution may then be fed by gravity, or a metering pump to the irrigation system water to achieve the desired available chlorine strength in the water. The Application Rates section provides the levels of free residual chlorine needed to prevent or address bio-fouling occurring in drip/trickle irrigation systems. When utilizing a metering pump, refer to the instruction manual for varying the output of the pump.

This product is to be applied through irrigation systems only for agricultural crops only where this manner of use will not cause crop damage.

This product is only for controlling bacteria, algae, water molds, and slime inside irrigation systems. This product is not intended to control bacteria, fungi, and other pests that are already present in the field or on or in the agricultural crop that is being irrigated and shall not be recommended or used for that purpose.

APPLICATION RATES

If the irrigation water has high levels of nutrients causing bacterial, algal, or other bio-fouling that reduces system performance, continuous use of this product may be necessary. The recommended level of free residual chlorine for continuous feed is 1 to 2 ppm, measured at the end of the farthest lateral using a good quality test kit for free chlorine (also called "free residual" or "free available" chlorine).

Periodic shock treatments at a higher available chlorine rate of up to 20 ppm free residual may be appropriate where bacteria and/or algae clogging and build-up are not managed by maintaining a

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this is a pesticide, registered under EPA Reg. No. 748-138

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continuous residual. The frequency of the shock application depends upon the frequency and extent of bio-clogging.

Superchlorination, bringing concentrations to as much as 100 ppm total available chlorine, is recommended for reclaiming low-volume irrigation systems if clogged by algae and bacterial slimes. Set the metering pump to deliver 100 ppm in the drip system and monitor the free chlorine residual at the end of the farthest lateral. As soon as it is established that the free residual reading is between 10 and 20 ppm, shut the system down and leave it undisturbed for up to 24 hours. Then flush all submains and laterals with fresh water. Superchlorination will not dissolve/remove scale or inorganic sediment fouling.

*Note: To correctly establish the dose setting required, it is necessary to measure the free chlorine concentration (ppm) at the end of the treated increment in the field and adjust the dose setting until the desired free chlorine concentration is obtained. This is because contaminants in the water may consume available chlorine resulting in a concentration that is less than the concentration desired as specified above. Only experience can establish the actual metering pump settings required to provide the amount of free chlorine at the end of the farthest lateral (and consequent treatment of the irrigation system). Normally the treatment level at the end of the farthest lateral will be 1 – 2 ppm free chlorine.

GENERAL APPLICATION INSTRUCTIONS

Chlorination should be started during irrigation early enough to establish the desired free chlorine concentration throughout the system being treated.

Apply this product upstream of the filter to help keep the filter clean.

Determine the level of free chlorine as described above, using a free chlorine test kit. Allow sufficient time to achieve a steady reading.

DO NOT apply this product when fertilizers, herbicides, and insecticides are being injected since they will consume the available chlorine and may produce toxic reaction products.

Shut down the product feed as soon as the irrigation water is switched to the next irrigation sector. Leave the treated water residing in the section that has been shut down.

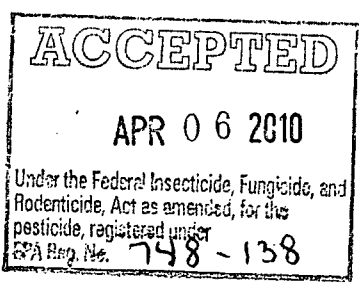
Refer to the metering pump use instructions as needed.

SENSITIVE PLANT SPECIES

Certain plants, including various species of trees, flowers, shrubs, agronomic crops, fruits and vegetables are adversely affected by chlorinated irrigation. The use of this product can impact the growth, appearance and health of the plants.

Begonias, geraniums and other ornamental plant species are known to be sensitive to continuous chlorination at levels of 1-2 ppm free chlorine. Plant species such as tomato, lettuce, broccoli, and petunia are sensitive to periodic chlorination levels of 10-20 ppm free chlorine.

If uncertain of a plant's tolerance, consult an agronomist or a support agency or use an alternate method to remove bio-fouling from the irrigation system.



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STORAGE AND DISPOSAL:

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage

Keep this product dry in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container.

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

[NOTE TO EPA: Language for Plastic non-refillable rigid containers all pails, drums and bottles] Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

[NOTE TO EPA: This language is for containers with capacities less than 5 gallons]

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or place in trash collection.

[NOTE TO EPA: This language is for containers with capacities greater than 5 gallons or 50 lbs.]

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or place in trash collection.

LIMITED WARRANTY: The Manufacturer warrants, for a period of 1 year from purchase, that when this Product is stored and used, all in accordance with label directions, it will be fit for its intended purpose. THE MANUFACTURER EXPRESSLY DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES. TO THE EXTENT THIS DISCLAIMER IS PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTIES ON THIS PRODUCT ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. If this Product fails to conform to this Limited Warranty, the Manufacturer will refund your purchase price or furnish you with replacement product, at Manufacturer's option. This is the Manufacturer's sole liability and in no event will Manufacturer be liable for direct, indirect, special, incidental or consequential damages. To make a claim under this Limited Warranty, contact the store/dealership where you purchased this Product. This Limited Warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.

