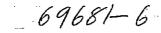
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Page 196

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 1 4 1998

Allchem Industries, Inc. 1275 Pennsylvania Avenue, N.W. Suite 1100 Washington, D.C. 20004-2417

Attention: Edward Lyle Agent for Allchem Industries

Subject: Cal Hypo Granules - 100% Repack EPA Registration Number 69681-6 Your Submissions Dated April 9, 1998 and April 14, 1998

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provide that you make the labeling change listed below before you release the product for shipment bearing the amended labeling.

Revise the "Effluent Discharge Labeling Statements" in accordance with Pesticide Regulation (PR) Notice 93-10.

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely

Robert S. Brennis Product Manager (32) Regulatory Management Branch II Antimicrobials Division (7510W)

CONCURRENCES									
SYMBOL									
SURNAME									
DATE									

EPA Form 1320-1A (1/90)

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# PRECAUTIONARY STATEMENTS: ; HAZARDS TO HUMANS AND DOMESTIC ANMALS:

DANGER. Highly corrostive. Causes skin and etys damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face sheld and rubber gloves when handling this product. Initiating to note and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse. ENVIRONMENTAL (HZARDS: This product is toxic to fish and aquitile organisms. Do not discharge effluent containing this product into lakes, streams, ponds, esturates, oceans, or public wakers unless this product is specifically identified and addressed in an NPDES permit. Do not discharge this product to server systems without previously notifying the servage treatment plant authority. For guidance contact your State Water Board or Reviousl office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS. STRONG OXIDIZING AGENT: Strong oxidizing agent. Mix only with water. Use clean, dry utensits. Do not ead this product to any dispensing device ountaining remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Containing tom with molisture, organic matter, or other chemicals will start a chemical reaction with generation of hest, chiofine gas and possible generation of fire and explosion. In case of containination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood with large volumes of water it necessary.

DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH IT'S LABELING. Setter's guarantee shall be limited to the terms set out on this tablet and subject therato, the buyer assumes the risk to persons or property artsing from the use or handling of this product and accepts the product on that condition.

#### SWIMMING POOL WATER DISINFECTION

Cal Hypo Granules, with a 55% available chlorine, is designed to dissolve quickly and provide a ready source of available chlorine in swimming pools. Used according to directions Cal Hypo Granules this ebge, hits bacteria and destroys ourgenic contaminants. If any chlorine residual is present, adding 2 ozs. per 10,000 gatons will increase the residual by approximately 1 part per million (spm). Follow the dosages and procedures recommended below.

DIRECTIONS FOR POOL USE: Aways adjust pH between 7.2 and 7.6 prior to using Cal Hypo Granulus.

START-UP: For Initial chiprination of pool water, add 10 ozs. per 10,000 gals. Allow 5 minutes for dispersion and then test the chiprine trackular with a pool test ML. If bedwer 1.0 ppm repeat the dosage until 1.0 ppm is obtained. Pool should not be entered until chiprine residual is below 2.0 ppm.

SUPER CHLORINATION (SHOCK) OF STABILIZED POOLS: For pools stabilized with cyanuric acid, periodic superchonization is necessary to provide sufficient free available chiorine to control stage, destroy unifiked organic containing and an even of a safe along your water sparking clear. Superchloritate by broadcasting Cali Hypo Granvies over a large area, mainly in the deep end of the pool. 10 ozs. per 10,000 gals. Superchloritate every 14 days when the temperature of the water is below 80° F. Treatment every 7 days is recommended when the temperature is higher, butting loads are heavy, pool water appears duil or hazy, an unpleasant chiorine-like smell is present, excessive eye initiation occurs, or after heavy rains. Pool should not be antered until the chiorine residual is below 2.0 ppm. Check the level of residual chiorine with a text like like.

TREATMENT FOR CONTROL OF ALGAE: If algae develops resulting in a green color and a silmy feeling, Cal Hypo treatment is necessary. Broadcast Cal Hypo Gravules over a large area of the pool surface manity at the deep end, at the rate of 20 ozs. per 10,000 gals. If the pool sides or bottom develop algae spots, direct Cal Hypo Gravules as close to the algae as possible. NOTE: Prolonged contact with pool surface may cause talking or blacching. Inmediately after treatment, thoroughly clean pool by scrubbing surface of algae growth, vacuuming and cycling through the filter. If necessary, repeat the treatment. Pool should not be enforced with the chorine resitual is below 20 pom.

WINTERUZING: Write the water is still clear and clean, prepare for long periods of cliques by gradually applying 6 ozs. per 10,000 gsts. Run the filter until dispersion is complete. Cover the pool with a plastic pool cover and prepare the heater, pump and filter components for where by knowing manufacturen' directions. When the pool cover is removed in the spring, bitwor "START-UP" directions. At and the swimming pool essenon or when water is to be drained from the pool. Cell Hryo Granules must be allowed to the swimming pool essenon or when water is to be drained from the pool. Cell Hryo Granules must be allowed to the spring the spring the spring of the spring.

dissipate from pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

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# **MULTI-PURPOSE**



# CAL HYPO GRANULES

# KEEP OUT OF REACH OF CHILDREN DANGER

See additional precautionary information on side panels.

#### ACTIVE INGREDIENT:

Calcium Hypochlorita:	67%
INERT INGREDIENTS:	33%

STATEMENT OF PRACTICAL TREATMENT (FIRST AID): IF CONTACT WITH EYES OCCURS: Flush with cold water for at least 15 minutes', Get medical attention. IF CONTACT WITH SKIN: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If initiation persists, get medical attention. IF SWALLOWED: Drink large amounts of water. DO NOT induce vomilith Call a physician or poison control corter immodiately

EPA REG. NO. 69681-6

EPA EST. NO. 69681-TX-001

NET WEIGHT: 25 LBS. (11.36 kg)

# DIRECTIONS FOR USE (con'l):

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

# PLEASE SEE TEXT FOR ADDITIONAL USES ON PAGES WHICH FOLLOW.

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ACCEPTED with COMMENTS in EPA Letter Dated:

# MAY 1 4 1998

Under the rederal Insecticide, Functicide, and Rodenticide Act as smended, for the pesticide registered under 1'PA Reg. No

STORAGE AND DISPOSAL: Keep this product dry in a tightly seeled 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 material before discarding this container. Rinse thoroughly and puncture before placing in trash collection. Do not contaminate food or feed by storage, disposal, or cleaning of equiloment.

A641-6

ALLCHEM INDUSTRIES 4001 Newberry Road Galgesville FL 32607

#### SPAS, HOTTUBS, IMMERSION TANKS, ETC.

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SPAS/HOT TUBS — Apply 05 oz 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, logions 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 oz. 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.oz, of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 1.5 oz. of product daily per 500 gallons of water to maintain a 3 ppm chlorine concentration.

HYDROTHERAPY TANKS — Add 1 oz. 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 relilling.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE 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 tasted and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 oz. 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 samitizing solution, maintaining contact with the samitizer for at least 2 minutes. 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. Samuzers used in automated systems may be used for general cleaning but may not be re-used for samuzing purposes.

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 chlorina must be tested and adjusted periodically to insure that the available chlorine. does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 40 gattons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 oz. of this product with 20 gatons of water to provide approximately 200 ppm available chlorine by weight.

6

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. 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.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

FLOW/PRESSURE METHOD — Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use, Prepars a volume of a 200 ppm available chlorine sanifizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 oz, product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is complately filled with the sanifizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and fest with a chlorine test kit. Repeat entire cleaning-sanifizing process if effluent contains less than 50 ppm available chlorine.

CLEAN-IN-PLACE METHOD — Thoroughly clean equipment after 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 oz. product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely lilled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to insure 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 — Preclean 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 oz. product with 20 galions of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 3 oz product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and finse spray/fog equipment with potable water after use. Thor: this spray or fog all surfaces until wet, allowing excess santizer to dra.n. 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.

SANITIZATION OF POROUS FOOD CONTACT SURFACES RINSE METHOD — Prepars a 500 ppm solution by thoroughly mixing 3 oz. 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 oz. 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 oz. of this product with 20 gallons of water. Clean equipment in a normal manner. Prepare a 200 ppm sanitizing solution by thoroughly mixing 1 oz. of this product with 20 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 609 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 3 oz. product with 20 ounces 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 excesss 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 I oz. of this product with 20 gallons of water. SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES RINSE METHOD — Prepare a sanitizing solution by thoroughly mixing 1 oz. 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 oz. 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 chiorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1 oz. 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.

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES RINSE METHOD — Prepare a disinfecting solution by thoroughly mixing 3 oz. 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, martaining 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 oz. 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 sanitizer to drain. Do not rinse equipment with water after treatment.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

RINSE METHOD — Prepare a sanitizing solution by thoroughly mixing 3 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chorine by weight. Clean 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.

MMERSION METHOD — Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 3 oz. 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 solution for at least 2 minutes and allow the sanitizer to drain. Do not ruse equipment with water after treatment.

SPRAY/FOG METHOD --- After cleaning, sanitize non-food contact surfaces with 600 pcm available chlorine by thoroughly mixing the product in a ratio of 3 oz. of this product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse sprayfog 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.

# SEWAGE & WASTEWATER EFFLUENT TREATMENT

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

On the average, satisfactory disinfection of secondary wastewater 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 ventiled by the coilform quality of the effluent. The following are critical factors affecting wastewater disinfection,

 Mixing: It is imperative that the product and the wastewater be instantaneously and completely llash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.

496

2. Contacting: Upon ilash mixing, the flow through the system must be maintained.

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.

#### SEWAGE AND WASTEWATER TREATMENT

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 filter from service, drain to a depth of 1 ft, above filter sand, and add 16 oz. cf product per 20 sq. ft. evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for < io 6 hours before completely draining and backwashing filter.

# DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)

PUBLIC SYSTEMS: Mix a ratio of 1 oz. 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 0.5 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 Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

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 slift brush. This solution can be made by thoroughly mixing 1 oz. of this product into 40 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe-sleave 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 weit 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.

INDIVIDUAL WATER SYSTEMS: 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 oz, 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.

INDIVIDUAL WATER SYSTEMS: 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.

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 byu allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add I grain of this product to I 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 bouring it between clean containers several times Wall 5 minutes, then add soap or detergent and start the wash/rinse cycle.

#### Commercial Laundry Sanitizers

Wel fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 1 oz. 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 fabrica/clothes in the regular wash cycle with a good detargent. 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.

# FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pans, 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 scap or delergent and rinse with water. To disinfect, 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 oz. of this product with 10 gallons of water. Immerse all halters, ropes and other types of 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 buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been disipated. All treated fords, mangers, troughs, automatic feeders, fountains and waterers must be thised with potable water before reuse.

#### PULP AND PAPER MILL PROCESS WATER SYSTEMS

SLUG FEED METHOD — Initial Dose: When system is noticeably fouled, apply 10 to 20 oz, of this product per 10,000 gailons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 2 oz. 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 systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD — Initial Dose: When system is noticeably fouled, apply 10 to 20 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply hall (or  $\frac{1}{3}$ ,  $\frac{1}{3}$ , or  $\frac{1}{3}$ ) of this initial dose when hall (or  $\frac{1}{3}$ ,  $\frac{1}{4}$ , or  $\frac{1}{3}$ ) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 2 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply hall (or  $V_2$ ,  $V_4$  or  $V_3$ ) of this initial dose when half (or  $V_2$ ,  $V_4$ , or  $V_3$ ) of the water in the system has been lost by blowdown. Badly fould systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD — Initial Dose: When system is noticeably fouled, apply 10 to 20 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

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Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

.RIQUETTES OR TABLETS — Initially slug dose the system with 10 oz. of this product per 10,000 gallons of water in the system. Badly touled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add 2 oz. of this product per 10.000 gations of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

# AGRICULTURAL USES

POST-HARVEST PROTECTION — 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 polatoes. Thoroughly mix 1 oz of this product to 10 gallons of water to obtain 500 ppm available chlorine.

FOOD EGG SANITIZATION — Thoroughly clean all eggs. Thoroughly mix 1 oz. of this product with 20 gallons of warm water to produce 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 ranse. The solution should not be re-used to sanitize eggs.

6

FRUIT & VEGETABLE WASHING — Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 oz. 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 2 minutes in a second wash tank containing the recirculating satutizing solution. Spray time vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

#### AQUACULTURAL USES

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS -- Prepare a solution containing 200 ppm of available chlorine by mixing 0.5 cz. of product with 19 gallons of water, Pour into drained pond potholes. Repeat if necessary, Co not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

#### SANITIZATION OF DIALYSIS MACHINES

Flush equipment thoroughly with water prior to using this product. Thoroughly mix 7 oz. of this product to 60 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20°FC. Drain system of the sanitizing solution and thoroughly rinse with water. Discard and DO NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to insure that no available chlorine remains in the system.

This product is recommended for decontaminating single and multipatient hemodiarysate systems. This product has been shown to be an eftective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate derivery 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 which includes bacteriological monitoring of the hemodialysate derivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes.

Consult the guidelines for hemodialysato systems which are available from the Hepititis Laboratories, CDC, Phoenix, AH. 85021.

#### TOILET BOWL SANITIZERS

(These products are marketed as individual packages for placement in the tode). Therefore, use directions are not appropriate.)

(Claims are timited to sanitization. No claim for disinfection are permitted.)

# ASPHALT OR WOOD ROOFS AND SIDINGS

To control lungus and mildew, first remove all physical soil by brushing and Losing with clean water, and apply a \$000 ppm available chlorine solution. Mix 1 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

#### BOAT BOTTOMS

To control slime on boat boltoms, sling a plastic tatp under boat, retaining enough water to cover the fould boltom area, but not allowing water to enter enclosed area. This envelope should contain approximately SOO gallons of water for a 14 loot boat. Add 35 oz. of this product to this 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 will the free chlorine level has dropped to 0 ppm as determined by a swimming pool test kit.

# ARTIFICIAL SAND REACHES

To sanitize sand, spray a 500 ppm available chlorine solution containing Q1 oz. of this product per gallon of water at frequent intervals. Small areas can be sprinkled with a watering can.

#### FOOD PROCESSING FLANTS

POULTRY DRINKING WATER - Spray or flush with a solution containing I oz. of this product for every gallon of water. Treat poultry drinking water to a dosage of 1 to 5 ppm available chlorine by adding 1 to 5 oz. of this product per 1000 gallons of water.

676

[BISH FILLETING — Eviscerated and degilled fish removed from the fishing vessel are placed in a wash tank of seawater or fresh water which has been freated with enough product to produce a chlorine residual of 25 ppm, as determined by a test kit. Remove fish from treated water 24 to 48 hours before littleting. After scaling, the fish are again washed in a 25 ppm solution, and are ready for filleting.

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PECAN CRACKING AND DYEING - Prepare a 1000 ppm available chlorine soaking solution by adding 1 oz. 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% sulphuric acid bath at 80 to 90°F for 1 minute. Transfer to a solution containing 100 oz. of this product for each 100 gallons of water (5000 ppm). After 4 to 6 minutes, they are drained and washed in a 1% sulphuric acid bath at 80 to 90°F. They are then dried.

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. If solution contains less than 50 ppm "vallable chlorine, as getermined 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.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used for 'sanitizing purposes.