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Bolom

Saskatoon Chemicals

65% Calcium Hypochlorite

End Use Directions

ACCEPTED

FEB 2 8 1991

Under the Federal Insecticide, Fung: 1de and Rodenticide Act is accended for the pesticide in a teres under Reg No 50956-1

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TABLE OF CONTENTS

SWIMMING POOL WATER DISINFECTION1
SPAS, HUT-TUBS, IMMERSION TANKS, ETC
SANITIZATION OF NONPOROUS FOOD
CONTACT SURFACES1
SANITIZATION OF POROUS FOOD
CONTACT SURFACES1
SANITIZATION OF NONPOROUS NON-FOOD
CONTACT SURFACES2
DISINFECTION OF NONPOROUS NON-FOOD
CONTACT SURFACES2
SANITIZATION OF POROUS NON-FOOD
CONTACT SURFACES2
SEWAGE & WASTEWATER EFFLUENT TREATMENT2
SEWAGE AND WASTEWATER TREATMENT2
DISINFECTION OF DRINKING WATER
(EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)2
PUBLIC WATER SYSTEMS
EMERGENCY DISINFECTION AFTER FLOODS
EMERGENCY DISINFECTION AFTER FIRES3
EMERGENCY DISINFECTION AFTER DROUGHTS3
EMERGENCY DISINFECTION AFTER
MAIN BREAKS3
COOLING TOWER/EVAPORATIVE
CONDENSER WATER3
LAUNDRY SANITIZERS4
FARM PREMISES4
PULP AND PAPER MILL PROCESS
WATER SYSTEMS4
AGRICULTURAL USES4
AQUACULTURAL USES4
SANITIZATION OF DIALYSIS MACHINES
TOILET BOWL SANITIZERS
ASPHALT OR WOOD ROOFS AND SIDINGS
BOAT BOTTOMS
ARTIFICIAL SAND BEACHES
FOOD PROCESSING PLANTS

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Under the Federal Insecticide, Fungtonite, and Redenticide Act, as amended, for the pesticide or gretered under EPA Heg No 50756-1

SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, superchlorinate with 10 to 20 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm.

To maintain the pool, add manually or by a feeder device 2 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Every 7 days, or as necessary, superchlorinate the pool with 10 to 20 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1.0 to 3.0 ppm.

At the end of the swimming pool season or when 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.

WINTERIZING POOLS — While water is still clear & clean, apply 0.6 oz. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

SPAS, HOTTUBS, IMMERSION TANKS, ETC.

SPAS/HOT TUBS — Apply 0.5 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, lotions, fragrances, cleaners, etc. may cause loaming 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, and 15 or, of product daily per 500 gallons of water to manger a 3 ppm enightene concentration.

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Under the Pedetal Insecticide. Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 50956-/

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 76. Operate pool filter continuously. Drain pool weekly, and clean before retiiling.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE METHOD — A solution of 100 ppm available chlorine may be used in the sanitizing schrion if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine 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 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 sanitizing solution, maintaining contact with the sanitizer 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 equip-

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

IMMERSION METHOD — A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test tit is available. Solutions containing an initial concentration of 100 ppm available chlorine 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 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 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. 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 filled with the sanitizer 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 test with a chlorine test kit. Repeat entire cleaning-sanitizing 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 filled 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 gallons 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 hypochlorist 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.

SANITIZATION OF POROUS FOOD CONTACT SURFACES

RINSE METHOD — Prepare a 600 ppm solution by thoroughly mixing 3 oz. of this product with 20 gallons of water. Clear, 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 sanifizing solution by thoroughly mixing 1 oz. of this product with 20 galloris of water. Prior to using equipment, rinse all surfaces with ϵ 200 ppm at/ailable chlorine solution. Do not rinse and do not suak 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 the normal matrice. Prepare a 260 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 aflow the sanitizer to drain. Do not tinse 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 oz. product with 20 gallons of water. Use soray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use.

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тиоторулту spray or tog 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 chloring solution. Prepare a 200 ppm sentizing solution by thoroughly mixing 1 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 appreximately 200-ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rines all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. De 2 8 biggs: ntained. ment overnight.

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 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.

ISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES INSE 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, 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 dz. 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 earitizer 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 Joz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, mainning contact with the sanitizer for at least 2 minutes. Do not rinse equipion) with water after treatment and do not soak equipment overnight.

IMMERSION 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. Oo not rinse equipment with water after treatment.

SPRAY/FOG METHOD — After cleaning, sanitize non-lood contact sur-13ces with 600 ppm available chloring by thoroughly mixing the product in a ratio of 3 oz. of this product with 20 gallons of water. Use spray or logging equipment which can resist hypochlorite solutions. Always empty and rinse spray/log equipment with potable water after use. Prior to using ндиртелі, throughly spray or tog all surfaces until wet, allowing excess samilizer to drain. Vacate area for at least 2 hours.

SEWAGE & WASTEWATER EFFLUENT TREATMENT

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

In the average, satisfactory disinfection of secondary wastewater effluent an 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 affluent, 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 wastewater disinfection.

T. MIXING: It is imperative that the product and the wastewater be in-strainedubly and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.

Contacting: Upon flash mixing, the flow through the system must

Under the Federal Inecthering Feadual Control: Successful disinfection is extremely IMMERSION METHOD — Prepare a sanitizing solution by the transfer in an immersion tank, 1 oz. of this product with 20 gas discretely for the problem and describe chlorine level. Secondary effluent should control provide approximately 200 ppm existable chlorine by instance of the product with 20 gas discretely for under the product with 20 gas discretely for the product with 20 gas discretely for the provide approximately 200 ppm existable chlorine by instance of the product with 20 gas discretely for the product with 20 gas discretely for the product with 20 gas discretely for the provide approximately 200 ppm existable chlorine by instance of the product with 20 gas discretely for the product with 20 gas

SEWAGE AND WASTEWATER TREATMENT

EFFLUENT SLIME CONTROL - Apply a 100 to 1000 ppm available chloring 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 16.0z. of 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 4 to 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 0.6 ppm is attained throughout the distribution system. Check weter 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 stiff 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 pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanifizing 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.

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 hito 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, stait-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 wolfs with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Dapart nent tor runher details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artosian wells generally do not require distribution. If analyses indicate persistent contamination, the well should be disinfreuit your local Health Department for further details.

EMERGENCY DISINFECTION — When boiling of wath "cr 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.

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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 elight chlorine odor; if not, repeat dosage and allowed to stand an additional 15 minutes. The treated welleggap the

After 30 minutes, drain water to the level of the filter. After 4 to 6 hours, drain, and proceed with normal backwashing.

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 and 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 TANKS, BASINS, ETC. -- Remove all physical soil from surfaces. Place 4 oz. 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 surface.

NEW FILTER SAND - Apply 16 oz. 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.

NEW WELLS - Flush the casing with a 50 ppm available chlorine solution of water containing 1 oz. of this product for each 100 gations 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 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm 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 oz. of this product for each 5 gallons of water (approximately 1000 poin available chloring). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS

WELLS — Thoroughly flush contaminated casing with a 500 ppm available chloring solution. Prepare this solution by mixing 1 az. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidily, 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, and sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the water well for several hours and take a representative water sample. Retreat 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 recervoir obtains a 0.2 ppm available chloring residual, as determined by a suitable chlonne 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 (OSOTVOIL

BASINS, TANKS, FLUMES, ETC. - Thoroughly clean all equipment, then apply 4 oz. of product per 5 cu. ft. 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 oz. of this product for each 5 gallons of water (1000 ppm evailable chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTERS — When the sand filter needs replacement, apply 16 oz. 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 oz. per 20 sq. ft. Water should stand at a depth of 1 loot above the surface of the filter bed for 4 to 24 hours. When filter beds can De backwashed of mud and silt, apply 16 oz. of this product per each 50 5Q. It allowing the water to stand at a depth of 1 foot above the filter sand.

made palatable by pouring it between clean containers to the feet these Entailished pochlorinating station and apply sufficient product until a consistent available chlorine residual of all least 10 ppm remains after a PUBLIC WATER SYSTEMS

RESERVOIRS — ALGAE CONTROL Mescalarinate and specific product until a consistent available chlorine residual of all least 10 ppm remains after a 188 hour retertion time. Use a chlorine test kit.

RESERVOIRS — ALGAE CONTROL: Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected on ALCH Stream and Rodenfields Act. EMERGENCY DISINFECTION AFTER FIRES least 50 yards upstream from the point of entry into the (ALCH Stream) and Rodenfields Act. EMERGENCY DISINFECTION AFTER FIRES least 50 yards upstream from the point of entry into the (ALCH Stream) and Rodenfields CONNECTIONS OR EMERGENCY CONNECTIONS — typical and the point should be set up near the information or gravity feed equipment should be set up near the inhydrants. Permit a water flow of at least 2.5 feet per minute to continue (Stream) of the control of the point of the universal 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 should 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, Sorsy a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 1 oz. 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 tost 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 chloring 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.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG 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 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 ar " 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 half (or 1/3, 1/4 or 1/4) of this imitial dose when half (or 1/4, 1/4, or 1/4) of the water in the system has been lost by blowdown.

Sub-equent 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 half (or 1/3, 1/4 or 1/4) of this initial dose when half (or 1/3, 1/4 or 1/4) of the water in the system has been lost by blowdown. Badly fouled 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 ger 10,000 ballons of water in the system to obtain 5 to 10 ppm sizulable chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 3,060 gallujus of weller lost by blowdown to maintain a 1 ppm residual. Badly fould I systems must be cleaned before treatment is begun.

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

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.

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LAUNDRY SANITIZERS

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A 1 Molen of sunitizing solution per tons of potatoes. Thoroughly mix 1 oz. Of This product to 10 gallons of water to obtain 500 ppm available chlorins.

Nonehold Laundry Senitizers

N SOAKING SUDS — Thoroughly mix 1 The, 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 Tbs, 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 labrics 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 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.

FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and d manure from floors, walls and surfaces enclosures. Remove all Inof barns, pens, stalls, c ind other facilities occupied or traversed by animals or poultry. E iroughs, racks and other feeding and watering appliances. Thorou .ean all surfaces with soap or detergent and rinse with water. To dissalurate all surfaces with a solution of at least 1000 pom svailable chi. , for a period of 10 minutes. A 1000 ppm soluion 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 acrapers 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 dissipated. All tre ed feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed 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 gallons 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 liber 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 half (or ½, 4, or ½) of this initial dose when half (or ½, ¼, or ½) of the water in the system has been tost 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 half (or ½, ¼ or ½) of this initial dose when half (or ½, ¼, or ½) of the water in the system has been lost by blowdown. Badly fouled 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.

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.

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

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.

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AGRICULTURAL USES
POST-HARVEST PROTECTION --- Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level

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 watted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING — Thoroughly clean ail 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 sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse truit with potable water only prior to packaging.

AQUACULTURAL USES

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS — Prepare a solution containing 606 appropriate available chlorine by mixing 0.5 oz. of product with 10 oblors of the pur into drained pond potholes. Repeat if necessary. Do not put desirable (sh back into relited ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

FEB 2 8 1991
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 507 56-1

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 hemodialysate systems. This product has been shown to be an effective disinfectary (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 which 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 which are available from the Hepititis Laboratories, CDC, Phoenix, AR. 85021.

TOILET BOWL SANITIZERS

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

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

ASPHALT OR WOOD ROOFS AND SIDINGS

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

BOAT BOTTOMS

To control stime on boat bottoms, sting a plastic tarp under boat, retaining enough water to cover the fouled bottom area, 50, not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 3.5 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 the free chlorine level has dropped to 0 ppm, as determined by a swimming pool test kit.

ARTIFICIAL SAND BEACHES

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

FOOD PROCESSING PLANTS

POULTRY DRINKING WATER — Spray or flush with a solution containing 1 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.

FISH FILLETING — Eviscerated and degilled fish removed from the fishing vessel are placed in a wash tank of seawater or fresh water which has been treated 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 filleting. After scaling, the fish are again washed in a 25 ppm solution, and are ready for filleting.

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% suiphuric 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 8 minutes, they are drained and washed in a 1% sulphuric acid bath at 80 to 90°F. They are then dried.

SACTERIAL CONTROL IN SUGAR REFINERIES — To reduce dust-collecting pacteria, apply a solution containing 16 oz. of this product for each gallon of water (80000 page available chlorine) continuously by gravity into the recirculating low concentration syrup in the dust collector. Adjust the feed to give a chlorine residual of about 10 ppm in the syrup feaving the dust collector system. To reduce gum-forming bacteria, coat raw sugar with a solution of low concentration of product to control bacteria. To control thermophillic bacteria in vacuum pans, feed a solution containing 1 pound of this product for each ton of sugar (dry weight) in the vacuum pans.

