

LABEL APPROVAL 1/2 /20

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Fox Packaging, Inc. 137 South Robert Street St. Paul, MR 55107

Gentlemen:

Subject: Fox-Chlor

EPA Registration No. 62207-1

Your Amended and Supplemental Labeling Submitted on

April 7, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Five (5) copies of the finished labeling must be submitted before you release the product for shipment.

Sincerely yours,

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Walter C. Prancis
Acting Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

Punile 7-17

54003:I:A-4:Pringle:K-9:KENCO:06/28/90:07/27/90:ka:sw:vo:ek:dg R:54006:Pringle:K-9:KENCO:07/13/90:08/12/90:CL:EK:CL

| CONCURRENCES | | | | |
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| SYMBOL VIII 75048 | | | | |
| SURHAME PRINCE | | | | |
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EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

FRONT PANEL

Hypochlorite Solution Householo Bleach

FOX-CLOR

KEEP OUT OF REACH OF CHILDREN DANGER

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

IF CONTACT WITH EYES OCCURS, flush with water for at least 15 minutes. Get prompt medical attention.

IF CONTACT WITH SKIN OCCURS, wash with plenty of soap and water.

IF SWALLOWED, drink large quantities of milk, or gelatin solution. If these are not available, drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.

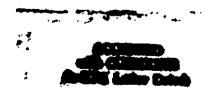
(See additional precautions on side panel.)

Net Contents:

FOX PACKAGING, INC. 137 South Robert Street . St. Paul, MN 55107

EPA. Reg. No. 62207-1 EPA. Est. 62207-MN-1

Authorized for use in federally inspected meat, poultry, and food egg plants.



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SIDE PANEL

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, may cause severe siin and eye irritation or chemical burns to prolen siin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid preathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

ENVIRONMENTAL HAZARDS

This product is tokic to fish. Do not discharge into lakes, streams, ponds, or public waterways unless in accordance with a NPDES permit. For guidance, contact the regional office of the U.S. Environmental Protection Agency.

PHYSICAL OR CHEMICAL HAZARDS

STRONG DEDIZING AGENT: Min only with water according to label directions. Mining this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

STORAGE AND DISPOSAL

Store this product in a cool ory area, away from direct sunlight and heat to avoid deterioration. In case or spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate food or feed by storage, disposal or cleaning or equipment. Do not reuse container but place in trash collection. Rinse empty container thoroughly with water and either return to manufacturer or dispard by placing this container in trash collection or burying in an approved landfill.

SIDE PANEL

DIRECTIONS FOR USE

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

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

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 bit 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. Frepare a 100 ppm sanitizing solution by thoroughly mixing 2.5 cz. of this product with 10 gallons of water. If no test bit is available, prepare a sanitizing solution by thoroughly mixing 5 cz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clear 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 orderine, as determined by a suitable test bit, 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 evenight.

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

IMMERSION METHOD - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test bit 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 once below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1.5 or. of this product with 10 gallons of water. If no test bit is available, prepare a sanitizing solution by thoroughly mixing 5 or. of this product with 10 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 I 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 acd 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 reused 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 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 5 oz. product with 10 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 lit. 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 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 5 oz. product with 10 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 (it. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

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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 5 oz. product with 10 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 15 oz. product with 10 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.

SANITIZATION OF POROUS FOOD CONTACT SURFACES
PINSE METHOD - Prepare a 600 ppm solution by thoroughly mixing 15 oz. of
this product with 10 gallons of water. Clean surfaces in the normal manner.
Rinse all surfaces thoroughly with the 600 ppm solution, maintaining
contact with the sanitizer for at least 1 minutes. Prepare a 200 ppm
sanitizing solution by thoroughly mixing 5 oz. of this product with 10
gallons of water. Prior to using equipment, rinse all surfaces with a 200
ppm available colorine solution. Do not rinse and do not soak equipment
overnight.

IMMERSION METHOD - Prepare a 600 ppm solution by thoroughly mixing, in an immersion tank, 15 pz. of this product with 10 gallons of water. Clean equipment in the normal manner. Immerse equipment in the 600 ppm solution for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 5 pz. of this product with 12 gallons of water. Prior to using equipment, immerse all surfaces with a 200 ppm available chlorine solution. Do not rinse and do not spate equipment overnight.

SPRAY/FOG METHOD - Prefleam all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 15 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse stray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to orain. Vacate area for at least 1 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly fixing 5 oz. of this product with 10 gallons of water.

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SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES
RINSS METHOD - Prepare a sanitizing solution by thoroughly mixing 5 oz. of
this product with 10 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 I minutes. Do
not rinse equipment with water after treatment and do not some equipment
overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 5 or, of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. 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/FOE METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mining the product in a ratio of 5 pz. product with 10 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 NONPORDUS NON-FOOD COMPACT SURFACES
RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 15 or,
of this product with 10 gallons of water to provide approximately 600 ppm
available colorine 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, 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. 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 15 oz. of
this product with 10 gallons of water to provide approximately 600 available
chlorine by weight. Clean surfaces in the normal manner. Prior to use,
rinse all surfaces thoroughly with the saritizing solution, maintaining
contact with the sanitizer for at least 2 minutes. Do not rinse equipment
with water after treatment and do not soal equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughle mixing, in an immersion tank, 15 oz. of this product with 10 gallons of water to provide approximately 600 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/FOE METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm a allable chlorine by thoroughly mixing the product in a ratio of 15 oz. of this product with 10 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 orain. Vacate for at least 2 hours.

AGRICULTURAL USES

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FOOD EGG SANITIZATION - Thoroughly clear all eggs. Thoroughly mix 5 oz. of this product with 10 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 rinse. The solution should not be reused to sanitize eggs.

FRUIT & VEGETABLE WASHING - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 12 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 fruit with potable water only prior to packaging.

PROCESSING AND CHIEF WATER FOR POULTRY PROCESSING - Follow guidelines of local water authority for water potablists treatment.

Continuous feed: Using automatic metering device, continuously feed this product into the water to obtain and/or maintain a level of available chlorine that is in accordance with USDA guidelines. Confirm target colorine level with either a chlorine test bit or an automatic testing device. When the available chlorine level reaches 20 ppm, notify the USDA plant inspector.

Intermittent feed: Start us by adding 2.5 oz. of this product per 1,000 gallons of water for each 1 ppm of available chloring needed. For subsequent doses, check chloring level with a chloring test kit, add enough of this product to maintain the target chloring level, and confirm this level with a chloring test kit. Do not pour this product directly on poultry product in the water.

FARM FREMISES

Remove all animals, poultry and feed from precises, vehicles and enclosures. Remove all litter and mancre from floors, walls and surfaces of parns, 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, 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 25 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 dissipated. All treated feed racks, mangers, thoughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

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AQUACULTURAL USES

FISH PONDS - Remove fish from ponds prior to treatment. Thoroughly mix 256 cc. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 5 cz. of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porcus equipment should soak for one hour.

MAINE LORSTER PONDS - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 15,400 oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all parrows, gates, rocks and dams are treated with product. Fermit high tide to fill the pond and then close gates. Allow water to stand for I to 3 days until the available chlorine level reaches zero. Open gates and allow I tidal cycles to flush the pond before returning lobsters to pond.

CONDITIONING LIVE DYSTERS - Thoroughly mix 13 or, of this product to 10.000 sellons of water at 50 to 70°F to obtain 0.2 ppm available chloring. Eleose bystems to this solution for at least 15 minutes, monitoring the available chloring level so that it does not fall below 0.05 ppm. Repeat entire process if the available chloring level drops below 0.05 ppm or the temperature falls below 50°F.

CONTROL OF SCAVENGERE IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available onloring by mixing 5 oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish pack into refilled ponds until chloring residual has dropped to zero, as determined by a test bit.

BOAT BOTTOMS

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 40 oz. of this product to this water to obtain a 25 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 drooped to zero, as determined by a swimming pool test lit.

ARTIFICIAL SAND BEACHES

To sanitize the sand, spray a 500 ppm available chloring solution containing 13 oz. of this product per 10 gallons of water at frequent intervals. Small areas can be sprinkled with a watering can.

ASPHALT OR WOOD ROOFS AND SIDING

To control fungus and mileew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution. Mix 13 cz. of this product per gallon of water and brush or spray root or siding. After 30 minutes, rinse by hosing with clean water.

DISINFECTION OF DRINKING WATER (PUBLIC/INDIVIDUAL SYSTEMS)
PUBLIC SYSTEMS - Mix a ratio of 1 oz. of this product to 100 galions of water. Regin 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 bit. Pacteriological 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

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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 1.5 or, of this product into 10 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 sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 2+ hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

INTITIONAL SYSTEMS: DRILLED, DRIVER & ROREL WELLS - Run pump until water is as a from turbicity as possible. Four a 100 ppm available chloring sanctions solution into the well. This solution can be made by thoroughly mixing 2.5 or, of this product into 10 gallons of water. Add 5 to 10 gallons of clear, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of the pump cylinder with the saritizer. Drop pipeline into well, stant 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 fraces 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 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.

PUBLIC WATER SYSTEMS

RESERVOIRS: ALGAE CONTROL - Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

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 hypothlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

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NEW TANKS, BASINS, ETC. - Remove all physical soil from surfaces. Place 52 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 a nours. Drain and flush with potable water and return to surface.

NEW FILTER SAND - Apply 208 of, of this product for each 150 o 200 cubic fest 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 12 or, of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough it is with agritation. The well should stand for several hours or overnight into chlorination. It may then be sumped until a representative raw water series is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

Existing EQUIPMENT - Remove equipment from service and thoroughly clean surfaces of all physical soil. Sanitize by placing 53 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stant at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be saraged with a solution containing a oz. of this product for each 5 gallons of later (approximately 1000 ppm available chlorine). After orging, flush with later and return to service.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

Sivil FEEL METHOD - Initial Dose: When system is noticeably fouled, apply 128 to 256 bg. 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.

Eubsequent Dose: When micropial control is evident, add 25 or, of this error of 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 satters must be cleaned before treatment is begun.

INTERMITENT FEED METHOD — Initial Dose: When system is noticeably fouled, assign 126 to 256 or, of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chloring. Apply half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Eubsequent Dose: When microbial control is evident, add 25 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 1/5) 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 systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, assign 128 to 256 or, of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chloring.

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

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EMERGENCY DISINFECTION AFTER FLOODS

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WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 13 oz. 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 fit. 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. 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 reservoir obtains a 0.2 ppm available chloring residual, as determined by a suitable chlorine test bit. In case of contamination from surface orainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chloring residual in all parts of the reservoir.

PASINS, TANKS, FLUMES, ETC. - Thoroughly clean all equipment, then apply 52 oz. of product per 5 cd. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test bit. 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 13 oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush, and return to service.

FILTERS - When the sand filter needs replacement, apply 208 or, 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 208 or, per 20 sq. ft. 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 208 or, of this product per each 50 sq. ft., 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 100 ppm remains after a 24 hour retention time. Use a chlorine test bit.

EMERGENCY DISINFECTION AFTER FIRES

CROSS CONNECTIONS OR EMERGENCY CONNECTIONS - Hypochlorination or gravity feed equipment should 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 bit.

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 hit.

WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC. - Thoroughly clear all containers and equipment. Spray with a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 13 oz. of this product for each 10 gallons of water. During the filling of the containers, cose with sufficient amounts of this product to provide at least a 0.1 ppm chlorine residual. Use a chlorine test iit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS

MAINS - Before assembly of the repaired section, flush out mud and soil fermit 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, to system must be flushed free of all heavily chlorinated water.

PULP AND PAPER MILL PROCESS WATER EYSTEMS

SLUG FEED METHOD - Initial Dose: When system is noticeably fooled, apoly 128 to 156 or, of this product per 10,000 gallons of water in the system to obtain from 5 to 10 per available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 25 or, of this product per 10.020 gallons of water in the system daily, or as needed to maintain control and seep the chloring residual at 1 ppm. Bacly fouled systems must be cleaned before theatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 128 to 256 or. 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 the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 25 oc. 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 systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 128 to 256 or. 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. Eadly fouled systems must be cleaned before treatment is begun.

SEWAGE & WASTEWATER EFFLUENT TREATMENT

The disinfection of sewage effluent must be evaluated by determining the total number of colliform bacteria and/or fecal colliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent that 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 fill 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 colliform quality of the effluent.

The following are critical factors affecting wastewater disinfection.

- I. Mixing: It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
- 2. Contacting: upon flash miring, 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 after 15 minutes contact time.

SEWAGE & 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 23 to 227 or, of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chloring solution. Prepare this solution by mixing 8 or, of this product with 100 gallons of water.

FILTER REDS SLIME CONTROL - Remove filter from service, drain to a depth of 1 foot above filter, and add 187 cz. of product per 20 sq. ft. evenly over the surface. Wait 30 minutes before oranning water to a level that is even with the top of the filter. Wait for 4 to 5 hours before completely draining and backwashing filter.

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SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, superchlorinate with 128 to 256 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 bit. Adjust and maintain pool water pH to between 7.2 to 7.0. 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 15 bit, of this product for each 10,000 gallons of water to yield an available chloring residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chloring. Test the pH, available of loring residual and all alimity of the water frequently with appropriate test fits. Frequency of water treatment will depend upon temperature and tumber of swimmers.

Every 7 date, or as necessary, superchlorinate the pool with 128 to 256 be. of priduct for each 10,000 gallons of water to gield 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 and 3.0 ppm.

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

WINTERIDING FOULS - While water is still dream and clean, apply 8 ob. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available collowing residual, as determined by a suitable test fit. Cover pool, prepare heater, filter and heater completes for winter by following manufacturers' instructions.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HCT-TUPS - Apply 13 oz. of product per 1800 gallons of water to obtain a free available chlorine concentration of 5 ppm. is determined by a suitable chlorine test kit. Adjust and maintain pool water on to between 7.2 and 7.5. Some oils, lotions, fragrances, cleaners, etc. may cause foam no or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 13 or, of product per 1000 gallons of water over the surface to maintain a chloring concentration of 5 ppm.

After each use, shock treat with 21 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 8 oz. of product daily per 1000 gallons of water to maintain a 3 ppm chlorine concentration.

HURBARD AND IMMERSION TANKS - Add 13 oz. this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test bit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 13 oz. to a bucket of water and circulate this solution through the agitator of the tan for 15 minutes and then rinse out the solution. Clean tank thoroughly and only with clean cloths.

HYDROTHERAPY TANKS - Add 2 of of this product per 1000 gallery 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 7.1 and 7.6. Operate pool filter continuously. Drain pool weekly and clean before refilling.

LAUNDRY SANITIZERS

Household Laundry Sanitizers

IN SOAKING SUDS - Thoroughly mix 5 oz. of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes, them add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

IN WASHING SUDS - Thoroughly mix 5 oz. of this product to 10 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then ado spap or detergent and start the wash/rinse cycle.

Commercial Laundry Sanitizers

Wet fabrics or cicthes should be spun only prior to samitization. Thoroughly wix 5 bz. of this product with 10 gallons of water to provide 200 ppm available chlorine. Promptly after miming the sanitizer, add the solution to the prewash prior to washing fabricarclothes 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 chiorine level has dropped below 200 ppm.

SANITIZATION OF DIALYSIS MACHINES

Flush equipment thoroughly with water prior to using this product. Thoroughly mix 15 oz. of this product to 10 gallons of water to obtain at least off opm available chloring. Immediately use this product in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20°C. Drain system of samitizing solution and thoroughly rinse with water. Discard and DO NOT reuse the spent sanitizer. Prinsate must be monitored with a suitable test hit 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 disinfectant (viruside, fungicide, pactericide, pseudomonicide) when tested by AGAS 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 Hepatitis Laboratories, CDC, Phoenix, AZ 85021.

DIRECTIONS FOR LAUNDERING AND FABRIC CARE

Can be used on Nylon, Orlon, Rayon, Dacron

LAUNDRY - Add 1/8 cup bleach for each I gallons water in washing machine. TOP LOADERS: 1 cup per load; FRONT LOADERS: 1/2 cup per load. For bleaching and sanitizing white or colorfast cottons, linens, bylon, Dacron, Orion, and rayon. Use bleach in washing machine or first ringe. Wash or soal 10 minutes. Rinse well. If clothes are already in machine, dilute the bleach with one quart of water before using.

REMOVING STAINS - Use 1/8 cup bleach per quart of water. For stubborn stains from fruit, grass, tea, coftee, scorch, ink, and mildew, soak stained area in the solution 5 minutes. Rinse well. Repeat if necessary. Colored fabrics - test small piece before using. Use only in glass, rubber, plastic, porcelain, or enamelec containers.

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DIAPER-PAIL PRE-SOAK - Use 1/8 cup bleach per 2 gallons of water. Flush out soiled diapers. Then soak in bleach solution.

DO NOT USE ON SILK, WOOL, ACETATE, SPANDER OR LEATHER REEP UPRIGHT IN A COOL PLACE

DIRECTIONS FOR OTHER HOUSEHOLD/FARM USES For cleaning, disinfecting and deodomizing

CLEANING MITCHEN & BATHROOM - Use 1/8 cup per quart of water. To clean sinks, bathtubs, tile, lincleum, porcelain, and enameled metal, spread solution with cloth. Let stand I minutes. Rinse well.

TOILET BOWLS - Use 1/2 cap bleach. Pour in bleach - swab with brush. Let stand for 10 minutes. Flush. DO NOT use with bowl cleaners or any other household chemicals.

GARBAGE CAMS, TEAPOTS & CUPS, STAINED DISHES, WOODEN UTENSILS - 1/8 cup bleach per quart of water. Wash troncughly with warm sucs. Then soak in bleach solution 5 minutes. Pinse well. (Do not use on silverware.)

REFRIGERATORS, STOVES, FLOORS, UNPAINTED WOOD, SICKROOM EQUIPMENT - 1/4 cup bleach per I gallow of water. First wash thoroughly with warm suds, then spread the bleach solution with a cloth. Let stand I minutes. Rinse well.