813-14

02/20/2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

FEB 20 2001

DPC Industries, Inc. P.O. Box 24600 Houston, TX 77229

Attention: Wayne L. Penick Safety & Environmental Manager

Subject: Dixchlor EPA Registration Number 813-16 Your Amendment Dated December 14, 2000

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise your label per PR Notice 2000-3 is acceptable provided that you make the labeling change listed below before you release this product for shipment bearing the amended label.

The Storage and Disposal Statements must appear in the Directions for Use section of the label but somewhere after the Misuse Statement ("It is a violation ... ").

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 (7510C)

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SYMBOL					
SURNAME				••••••	
DATE			*****		

OFFICIAL FILE COPY

IB

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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NET CONTENTS:

I 15 GALLONS

⊐ 54 GALLONS

□ 300 GALLONS

30 GALLONS

DANGER: Corrosive. May cause severe skin irritation or chemical burns to broken skin. Causes eve damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves (PVC or Nitrile) when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans, or public waters IF SWALLOWED + Call points control center or doctor instantially for treatment or advice. unless in accordance with the requirements of the National Pollutant Discharge Elimination Systems (NPDES) permit and the Permitting Authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment FINEYES. plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING IF ON SKIN OR AGENT: Mix only with water according to label directions. Mixing CLOTHING: this product with gross fifth such as feces, urine, etc. or with ammonia, acids, detergents or other chemicals will release hazardous gases irritating to eyes, lungs and mucous membranes. Have the product container or label with you when calling a poston control center or doctor, or going for treatment

NO WARRANTY, EXPRESS OR IMPLIED. OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. IS MADE. EXCEPT THAT THE PRODUCT CONFORMS TO SELLER SPECIFICATIONS. BUYER ASSUMES ALL RISK OF USE. STORAGE AND HANDLING. SELLER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY IN CONNECTION WITH THE PURCHASE. USE, STORAGE OR HANDLING OF THE PRODUCT.

DIXICHLOR SANITIZER, DISINFECTANT

ACTIVE INGREDIENT:

SODIUM HYPOCHLORITE	10%
INERT INGREDIENTS	90%
TOTAL	00%

KEEP OUT OF REACH OF CHILDREN

DANGER

Have serves no a glass of water if able to swallow

Do not induce vomining unless hold to do so by the po

Do not give anything by mouth to an uncouncious person

Call poince control center or doctor for treatment advice.

Risse skin immediately with plenty of water for 15-20 minutes.

Call a poince control center or doctor for treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of eastric lavage.

Hold eve open and since slowly and gamiy with water for 15 -20 minute

Remove contact lenses, if present, after the first 5 minutes, then continue

FIRST AID

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL:

Store in a cool, dry area away from direct sunlight. In case of spill, flood area with large quantities of water. Triple rinse empty container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Product or rinseale that cannot be used should be diluted with water and discosed of in a sanitary sever. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

IMPORTANT! ALL SANITIZING APPLICATIONS

FOR ALL FOOD CONTACT SURFACES AND OBJECTS-Remove food particles

by flushing, scraping and, when necessary, soaking. Wash thoroughly with a good detergent or compatible cleaner and rinse with potable water before application of DIXICHLOR solution. Wet all surfaces thoroughly with DDICHLOR

solution by immersion flooding or spraying. Contact time must be at least two immutes. Drain solution and airdry. De not wash with potable water after

sanitizing. Dixichlor solutions must not be re-used for sanitizing purposes.

Prepare a fresh solution daily if the old solution becomes diluted or soiled.

SANITIZATION OF POROUS FOOD CONTACT SURFACES

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 600 ppm

Relien Water

141111

Bestred Strength Available Chierine (By Weight)

5 7718

10 2210

15 PPM 25 PPM 35 PPM 58 PPM 100 PPM

200 PPU 500 PPU 000 PPU

-

For a new pool or spring s 10,000 gallons of water i level of available chlorine 7.2 and 7.6. Adjust and To maintain the pool, add 10,000 gallons of water i by weight. Stabilized or chiorine. Test the pH, ava with appropriate test kits. and number of swimmer: Every 7 days, or as neces

for each 10,000 gallons of the level of available chlori is between 1.0 to 3.0 ppn At the end of the swittenini

sufficient size by thoroug

gallons of water. Precare ratio of 8 oz. product will

can resist hypochlorite s

potable water after use.

sanitizer to drain. Vacab

surfaces ireated with a 6

SIM

chlorine must be allowed chloringte the pool within WINTERIZING POOLS ----

1000 galloos, while filter determined by a suitable ponents for winter by to DISINFE

PUBLIC SYSTEMS: Mix a feeding this solution with least 0.2 ppm and no mor Check water irequently will ed at a frequency no less Water Reputations. Conta INDIVIDUAL SYSTEMS: [interior of the casino (fini brush. This solution can i gallons of water. After c through both the pipester cylinder also with the same of chiorine in water is note

well until all traces of chi Health Department for fu NOTE: This product degra

necessary to obtain the re **REFER TO THE**

FOR ADD

ACCEPTED

with COMMENTS

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dur the fored under EPA .

813-16

available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 8 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spary/fog equipment with potable water after use. Thoroughly spary or fog all

surfaces until wet allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2.5 oz. of this product with 10 gallons of water.

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SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES 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 ppgs sanitizing solution of

€ €



Manufactured by

DPC INDUSTRIES, INC.

1919 Jacintoport Blvd. Houston, TX 77015 (281) 457-4888

FOR 24 HOUR EMERGENCY INFORMATION CALL CHEMTREC: 1(800) 424-0300

doctor

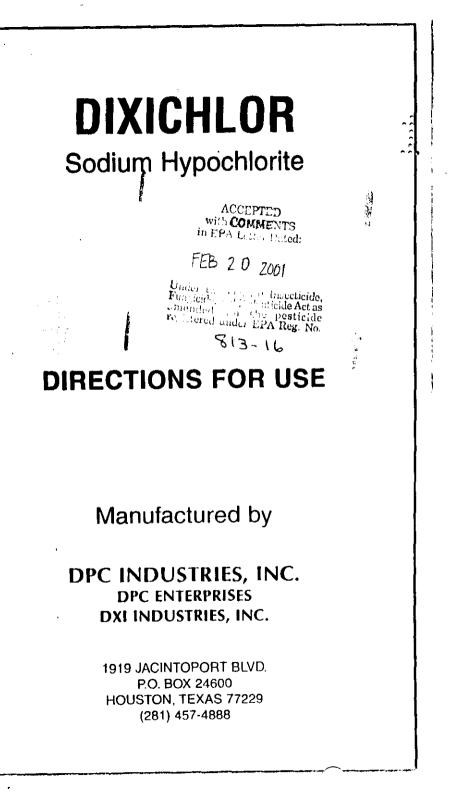
rissing the eye.

Take of contaminated clothing

Appropriate EPA establishment marked below EPA EST. NO. ALBO D 000813-NM-001 BILL D 000813-MT-001 CLEB C 000813-TX-004 HOU D 000813-TX-001 HUD **O** 000813-CO-001 OMAHA 🗅 000813-NB-001 ROSE 000813-MN-001 SWET D 000813-TX-003

EPA REG. NO. 813-16

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DIXICHLOR PRODUCTS

DIXICHLOR MAX	EPA Reg. No. 813-15
ACTIVE INGREDIENT:	
Sodium Hypochlorite	12.5%
INERT INGREDIENT:	
TOTAL	
DIXICHLOR	EPA Reg. No. 813-16
ACTIVE INGREDIENT:	
Sodium Hypochlorite	10.0%
INERT INGREDIENT:	
TOTAL	
DIXICHLOR LITE	EPA Reg. No. 813-14
ACTIVE INGREDIENT:	
Sodium Hypochlorite	
INERT INGREDIENT:	
TOTAL	

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S.

DIXICHLOR PRODUCTS

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID			
IF SWALLOWED	 Call poison control center or doctor immediately for treatment or advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. 		
IF IN EYES:	 Hold eye open and rinse slowly and gestly with water for 15 -20 minutes Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call poison control center or doctor for treatment advice. 		
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 		
Have the product or going for treatment.	mainer or label with you when calling a poison control center or doctor, or		

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, may cause severe skin and eye Irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves (PVC, Nitrile) when handling these products. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. DO NOT return until strong odors have dissipated.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sever systems without previously notifying the seware treatment plant nutionity. For guidance contact your State Water React or Regional Office of the EPA

PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with gross filth such as teces, urine, etc. or with ammonia, acids, detergents or other chemicals will release hazardous gases irritating to eyes, lungs and mucous membranes.

FOR 24 HOUR EMERGENCY INFORMATION CALL CHEMTREC: 1 (800) 424-9300

DIRECTIONS FOR USE

L.

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

IMPORTANT! ALL SANITIZING APPLICATIONS

FOR ALL FOOD CONTACT SURFACES AND OBJECTS - Remove food particles by flushing, scraping and, when necessary, soaking. Wash thoroughly with a good detergent or compatible cleaner and rinse with potable water before application of SODIUM HYPOCHLORITE solution. Wet all surfaces thoroughly with SODIUM HYPOCHLORITE solution by Immersion flooding or spraying. Contact time must be at least 2 minute. Drain solution and air dry. Do not wash with potable water after sanitizing. SODIUM HYPOCHLORITE solutions must not be re-used for sanitizing purposes. Prepare a fresh solution daily if the old solution becomes diluted or solied.

STORAGE AND DISPOSAL:

Store in a cool, dry area away form direct sunlight. In case of spill, flood area with large quantities of water. Triple rinse empty container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Product or rinsate that cannot be used should be diluted with water and disposed of in a sanitary sewer. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

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DIXICHLOR SODIUM HYPOCHLORITE

The DILUTION CONVERSION CHART provided below covers the DIXICHLOR Sodium Hypochlorite Products manufactured by DXI Industries, inc. and DPC Industries, Inc. It is designed to serve as a guide and may not cover all PPM ranges or dilution as required to satisfy a particular use or need.

III. DILUTION CONVERSION CHART

N.

Desired Strength		Liquid Oz. Sodium Hypochlorite			
Avail. Chlorine (by Weight)	Galions Water	12.5%	10%	5.25%	
5 PPM	100	.5	.75	1.5	
10 PPM	100	1.0	1.5	25	
15 PPM	100	1.5	2.0	40	
25 PPM	100	2.5	3.5	60	
35 PPM	100	3.5	4.5	85	
50 PPM	100	5.0	6.5	120	
100 PPM	10	10	1.5	25	
200 PPM	10	2.0	3.0	50	
500 PPM	10	50	65	12 0	
600 PPM	10	60	8.0	15 0	
	10	10.5	13.0	24.5	
1000 PPM	10	51.0	64.0	122.0	
5000 PPM 10000 PPM	10	102.0	128.0	244.0	

Should other available chlorine strengths or dilution volumes be desired, the following formula must be used to adjust the dosages:

		(PPM avail, Cl ₂) (Gal. Wator) (128)
Ounce of Product	E	(% Active Ingredient) (10,000)

8

Formula Definition:

Ounce of Product=Ounces of DIXICHLOR Product to UsePPM Available Cl2=What is RequiredDilution Gallons Water=You Specify Quantity128 oz./gal.=Constant 128(%) Percent Active Ingredient=Sodium Hypochlorite Strength10,000=Constant

IV. AGRICULTURAL USES

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A. Post-Harvest Protection

Potatoes can be sanitized after cleaning and prior to storage by spraying with a 500 ppm available, chlorine sanitizing solution at a level of 1 gallon of sanitizing solution per tons of potatoes.

Disinfect leafcutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours or until no chlorine odor can be detected. The bee domicile is disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated.

B Food Egg Sanitization

Thoroughly clean all eggs. Thoroughly mix DIXICHLOR product with 10 gallons of warm water to produce a 200 ppm available chlorine splution. The sanifizer temperature should not exceed 130 °F. Spray the warm sanifizer so that the oggs 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 sanifize eggs.

C. Fruit and Vegetable Washing

Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix DIXICHLOB in water to make a similizing solution of 25 ppm available chlorine. After draining the tank, submerge truit or vegetables for 2 minutes in a second wash tank containing the rocir colating samtring solution. Spray rinse vegetables with the samilizing solution prior to packaging. Almse truit with potable water only prior to packaging.

V. ARTIFICIAL SAND BEACHES

To sanitize the sand, spray a 500 ppm available chlorine solution at frequent intervals. Small areas can be sprinkled with a watering can.

VI. ASPHALT OR WOOD ROOFS AND SIDINGS

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 5000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 minutes, rinse by hosing with clean water.

VII. AQUACULTURAL USES

A. Fish Ponds

Remove fish from ponds prior to treatment. Add appropriate amount of DIXICHLOR to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more DIXICHLOR to the water if the available chlorine level is below 1 ppm after 5 minutes. Bettim fish to pond after the available chlorine level reaches zero.

B. Fish Pond Equipment

Thoroughly clean all equipment prior to treatment. Thoroughly mix DIXICHLOR with 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

9

C. Main Lobster Ponds

Remove lobsters, seaweed, ntc. from ponds prior to treatment. Drain the pond. Thoroughly mix DiXICI1LOR to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rock and dam are treated with product. Permit high tide to fill the pond and then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

D. Conditioning Live Oysters

Thoroughly mix DIXICHLOR to 10,000 gallons of water at 50 to 70"F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50"F.

E. Control of Scavengers in Fish Hatchery Ponds

Prepare a solution containing 200 ppm of available chlorine by mixing DIXICHLOR with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable lish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

VIII. BOAT BOTTOMS

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add DIXICHLOR 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.

IX. COOLING TOWER/EVAPORATIVE CONDENSER WATER

A. Slug Feed Method

Initial Dose: When system is noticeably fouled, add appropriate amount of DIXICHLOR 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 appropriate amount of DIXICHLOR 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.

B. Intermittent Feed Method

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

Subsequent Dose: When microbial control is evident, add appropriate amount of DIXICHLOR per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply hall (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.

C. Continuous Feed Method

Initial Dose: When system is noticeably fouled, add appropriate amount of DIXICHLOR per 10,000 gallons in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of DIXICHLOR per 1,000 gallons water lost by blowdown to maintain a 1.0 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

D. Cooling Tower/Evaporative Condenser Water Treatment Chart

Method	Ounce DIXICHLOR/10,000 Gallons Water			
	12 5%	10%	5.25%	
Slug Feed To obtain 5-10 ppm	52-104	68-135	130-260	
Subsequent Dose Maintain 1 ppm residual		13	25	
Intermittent Feed To obtain 5-10 ppm	52-104	68-135	130-260	
Subsequent Dose Maintain 1 ppm residual	11	13	25	
Continuous Fond To obtain 5-10 ppm	52-104	68-135	130-260	
Subsequent Dose* Maintain 1 ppm residuat	1	t.5	2.5	

("per 1000 gat)

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XI

EMERGENCY DISINFECTION AFTER DROUGHTS

A. 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.

B. Water Shipped in By Tanks, Tank Cars, Trucks, Etc.

Thoroughly clean all containers and equipment. Spray a 50 ppm available chlorine solution and rinse with potable water after 5 minutes. During the filling of the containers, dose with sufficient amounts of DIXICHLOR to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER FIRES

A. 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 kit.

XII. EMERGENCY DISINFECTION AFTER FLOODS

A. Wells

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the welf to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine test will able chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if water samples are biologically unacceptable.

А.

Reservoirs В.

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

Basins, Tanks, Flumes, Etc. С.

Thoroughly clean all equipment, then add 20 oz. of 12.5% DIXICHLOR to 5 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. Alter 24 hours drain, flush, and return to service, if the previous method is not suitable, spray or flush the equipment with a solution containing 1000 ppm available chlorine. Allow to stand for 2 to 4 hours, flush and return to service. (Using ratio method to calculate concentration, 5.25%, or 10% DIXICHLOR can be used)

Filters D.

When the sand filter needs replacement, apply 80 oz. of 12.5% DIXICHLOR 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 80 oz. per 20 sq. ft. Water should stand at a depth of 1 fool above the surface of the litter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 80 oz. of 121/% DIXICHLOR per each 50 sq. It., 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. (Using ratio method to calculate concentration, 5.25%, or 10% DIXICHLOR can be used.)

Distribution System

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

EMERGENCY DISINFECTION AFTER MAIN BREAKS XIII.

Mains Α.

XIV.

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

DISINFECTION OF DRINKING WATER (POTABLE) (Emergency/Public/Individual Systems)

Public System

Mix a ratio of DIXICHLOR to water to produce a 10 ppm available chlorine by weight. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

Individual Systems В.

1 . . .

1. 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. 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 water until strong odor of chlorine in water is noted. Stop pump and walt at least 24 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.

C. Individual Water Systems

> 1. DRILLED, DRIVEN AND BORED WELLS: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. 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.

> 2. FLOWING ARTESIAN WELLS: Artesian wells generally do not require disinfection. If analysis indicate persistant contamination, the well should be disinfected. Consult your local Health Department for further details.

Emergency Disinfection D.

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 1 to 3 drops, (dependent on product strength) to 20 gailons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times.

Ε. Meat and Poultry Plant Treatment

For the treatment of drinking water and water which may be incorporated into food products or directly contact food, use the following concentrations. Chlorine may be present in the process water of meat plants at concentrations of up to 5 ppm. Chlorine may be present in the process water of poultry plants at levels up to 20 ppm. Levels are calculated in ppm of available chlorine. Use dilution conversion chart to calculate the proper ratio of Hypochlorite solution to water. DIXICHLOR must be dispensed at a constant and uniform level to insure that a controlled rate is maintained.

PUBLIC WATER SYSTEM XV.

A. 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.

Β. Mains

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

New Tanks, Basins, Etc. C.

Remove all physical soil from surfaces. Place 20 oz. of 121/3% DIXICHLOR 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. (Using ratio method to calculate concentration, 5.25%, or 10% DIXICHLOR can be used.)

New Filter Sand D.

Apply 80 oz. of 121/3% DIXICHLOR 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. (Using ratio method to calculate concentration, 5.25%, or 10% DIXICHLOR can be used.)

New Wells E.

Flush the casing with a 50 ppm available chlorine solution. 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 lurther treatment is necessary.

Existing Equipment F.

Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 21 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 1000 ppm available chlorine solution. After drying, flush with water and return to service

FARM PREMISES

XVI.

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all littler and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. immerse all halter, ropes, and other types of equipment used in handling and restraining animals and 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 poullry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse

LAUNDRY SANITIZERS XVII.

Household Laundry Sanitizers Α

1 IN SOAKING SUDS: Thoroughly mix DIXICHLOB in 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

2. IN WASHING SUDS: Thoroughly mix DIXICHLOR in wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or delergent and start the wash/rinse cycle.

Commercial Laundry Sanitizers Β.

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

XVIII. PULP AND PAPER MILL PROCESS WATER SYSTEMS

A. Slug Feed Method

INITIAL DOSE: When system is noticeably fouled, add appropriate amount of DIXICHLOR 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 appropriate amount of DIXICHLOR per 10,000 gallons of water in the system daily, or as needed, to maintain control and keep the chlorined residual at 1 ppm. Badly fouled systems must be cleaned before treatment is beaun.

в Intermittent Feed Method

> INITIAL DOSE: When system is noticeably fouled, add appropriate amount of DIXICHLOR per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

> SUBSEQUENT DOSE: When microbial control is evident, add appropriate amount of DIXICHLOR 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.

C. Continuous Feed Method

INITIAL DOSE: When system is noticeably fouled, add appropriate amount of DIXICHLOR 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 1 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.

Pulp and Paper Mill Process Water Systems Treatment Chart D.

8 Augle - 1	Ounce DIXICHLOR/10,000 Gallons Water			
Method	12.5%	10%	5.25%	
Siug Feed To obtain 5-10 ppm	52-104	68-135	130-260	
Subsequent Dose Maintain 1 ppm residual	11	13	25	
Intermittant Faad To obtain 5-10 ppm	52-304	6B-135	130-260	
Subsequent Dose Maintain 1 ppm residual	11	13	25	
Costinuous Lood To obtain 5-10 ppm	52-104	68-135	130-260	
Subsequent Dose* Montein 1 ppm residual	t	1.5	25	

('per 1000 gal.)

BANITIZATION OF NONPOROUS FOOD CONTACT BURFACES

Α. **Rinse Method**

XIX.

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing required quantity of DIXICHLOR with 10 gallons of water. If no test kit is available, prepare a sanitizing solution to provide approx-Imately 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 reastablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight.

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

Immersion Method В.

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. If no test kit is available, prepare a sanitizing solution 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 automatic systems may be used for general cleaning but may not be reused for sanitizing purposes.

С. 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. 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.

Ð. 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. 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 E.

Preciean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or lungi and a 600 ppm solution to control bacteriophage. Use spray or logging equipment which can resist hypochlorite solutions. Always empty and rinso spray/log equipment with potable water after use. Thoroughly spray or log 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.

XX.

SANITIZATION OF POROUS FOOD CONTACT SURFACES Rinse Method

Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minutes. Prior to using equipment rinse all surfaces with a 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

....B. **Immersion Method**

Clean equipment in the normal manner. Immerse equipment in the 600 ppm solution for at least 2 minutes. Prior to using equipment, immerse ali surfaces in a 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

C. Spray/Fog Method

Preclean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of the required quantity and apply using spray or togging equipment which can resist hypochlorite solutions. Always erlipty and rinse spray/fog equipment with potable water alter use. Thoroughly 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 chlorine solution.

XXI.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES A. Rinse Method

Prepare a sanitizing solution 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

8. Immersion Method

Prepare a sufficient quantity of sanitizing solution in an immersion tank, 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 Melhod

Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size and apply using spray or logging equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanilizer to drain. Vacate area for at least 2 hours.

XXII.

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES **Rinse Method**

Prepare a disinfecting solution 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.

8. Immersion Method

Prepare a disintecting solution in an immersion tank, 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.

ANIIL CANTILLATION OF PUHOUS NON-FOOD CONTACT SURFACES

A. Rinse Method

Prepare a sanitizing solution 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, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

B. Immersion Method

Prepare a sanitizing solution, in an immersion tank, 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 rinse equipment with water after treatment.

C. Spray/Fog Method

After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine, using spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/log 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.

XXIV. SEWAGE AND WASTEWATER EFFLUENT TREATMENT

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, 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 verified by the colliform 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 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 be maintained.
- Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine levei. 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.

XXV. SEWAGE AND WASTEWATER TREATMENT

A. Effluent Slime Control

Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Once control is evident, apply a 15 ppm available chlorine solution.

B. Fliter Beds - Slime Control

Remove filter form service, drain to a depth of 1 II. above filter sand, and add 80 oz. of 12% DIXICHLOR per 20 sq./tt. 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. (Using ratio method to calculate concentration, 5.25%, or 10% DIXICHLOR can be used.)

XXVI. SANITIZATION OF DIALYSIS MACHINES

- Flush equipment thoroughly with water prior to using this product. Thoroughly mix DIXICHLOR TO 10 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°C. Drain the 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 disintectant (virucide, fungicide, bactericide, pseudomonicide) when tested by APAC and EPA test methods. This product may not totally eliminate all vegatative microorganisms in hemodialysate delivery systems due to the 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 bacteriologidal 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, DCD, Phoenix, AR 85021.

XXVII. SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

A. Spas/Hot-Tubs

Using Chart or Formula, calculate and approximate an amount of DIXI-CHLOR per 1000 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, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

1. Maintaining the Water: To maintain the water, apply DIXICHLOR solution over the surface to maintain a chlorine concentration of 5 ppm.

2. Alter Each Use: Shock treat to control odor and algae, using DIXICHLOR at a rate of 8 ounces of 12½% to 500 gallons of water. (Use chart or formula when using 5.25%, or 10% DIXICHLOR.)

3. Periods of Disuse: During periods of disuse, add DIXICHLOR daily to maintain a 3 ppm chlorine concentration.

B. Hubbard and Immersion Tanks

Before patient use add DIXICHLOR to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 5 ounces of 12½% DIXICHLOR to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths. (Use chart or formula when using 5.25%, or 10% DIXICHLOR.)

C. Hydrotherapy Tanks

Add DIXICHLOR to the 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 liller continuously. Drain pool weekly, and clean before refilling.

A. New Pool or Spring Start-Up

For a new pool or spring stari-up, superchlorinate with DIXICHLOR to yield a 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.

B. Maintaining the Pool

To maintain the pool, add manually or by a feeder device a sufficient quantity of DIXICHLOR 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 aikalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

C. Superchlorination

Every 7 (seven) days, or as necessary, superchlorinate the pool with DIXICHLOR to yield a 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.

D. End of Swimming Pool Season

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

E. Winterizing Pool

While water is still clear, and while filter system is in service, apply DIXI-CHLOR in quantities 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.

F. Swimming Pool Disinfection Chart

	Ounce DIXICHLOR/10,000 Gallons Water			
Method	12 5%	10%	5.25%	
Start-Up	52-104	64-128	122-244	
Maintenance	11	13	25	
Superchlorination	52-104	64-128	122-244	
Winterizing	30	39	75	

XXIX. ZEBHA MUSSEL CONTHOL AGENT

(Approved for use with DIXICHLOR 10.0% and DIXICHLOR MAX 12.5%) Zebra mussels can detect chemical changes in their environment and "clamp shut" for a period of three weeks until those changes are no longer detected or they die through lack of respiration. Chemical treatment times and concentrations may vary because of the mussel's biological ability of detection; the extent of mussel contamination; and the design variations of Bystems. Using sodium hypochlorite in this manner may require revisions

to existing federal, state, or local discharge permit(s) and/or the addition of dechlorination equipment.

A. Single Exposure

To control zebra mussels, add appropriate amount of DIXICHLOR to obtain a residual chlorine concentration of 10 to 20 ppm per 10,000 gallons of water in the system. For best results, treat during breeding season and/or at the end of season for at least 30 days. The release of zebra mussels for weeks after this method of treatment is not uncommon.

B. Semi-Continuous Exposure

To control zebra mussels, add appropriate amount of DIXICHLOR for 15 - 30 minutes a day to obtain a residual chlorine concentration of 5 to10 ppm per 10,000 gallons of water in the system. For best results, initiate treatment during breeding season (June to September).

C. Continuous Exposure

To control zebra mussels, add appropriate amount of DIXICHLOR through a continuous feed system to obtain a residual chlorine concentration of 5 to 10 ppm per 10,000 gallons of water in the system. For best results, apply during the breeding season (June to September).

D. Zebra Mussel Control Treatment Table

TREATMENT METHOD	Ounce DIXICHLOR/10.000 Gallons Water	
	12.5%	10%
Single Doseage	100 - 200	128 - 256
Semi-Continuous Dosenge	52 - 104	68 · 135
Continuous Doseage	52 - 104	68 - 135

XXX. SANITIZING AGENT FOR DINNERWARE AND UTENSILS

(Approved for use with DIXICHLOR 10.0% and DIXICHLOR MAX 12.5%) This product can be used as a sanitizing rinse of PRE-CLEANED, hand washed or machine washed dinnerware and food utensils at restaurants, hotels, and resorts. A solution of 100 ppm available chlorine may be used 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 100 ppm. If no test kit is available, prepare a sanitizing solution to provide approximately 200 ppm available chlorine by weight. For hand dishwashing, exposure to solution should be at least 1 minute or as required by local or state health departments. For machine washing, exposure time should be at least 2 minutes or delegated by manufacturer's specifications.

Dixichlor may be used as a bleaching and destaining agent in commercial dishwashing machines. Do not use this product as a final rinse on silver or silverplate as severe tarnishing will occur.