US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (7S 767) WASHINGTON, DC 20460 EPA REGISTRATION NO.

DATE OF ISSUANCE

NOV 0 7 1990

TERM OF ISSUANCE

NOTICE OF PESTICIDE: AREGISTRATION

(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

In Latier Myrochlority In

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

_

Us Ventures In it a Partnership Da 19 Systems Company P.C. Fox 130417 Fouston, TY 17219

ı

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registered, the above named posticide is hereby Registered/Rivegistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Inia craduct is conditionally registered in accordance with STRES sec. R(c)(7)(A) provided that you:

- 7. Outsit and/or cite all data results for reliatively remission of pour product under FIMPA sec. 3(c)(5) for the feeture remissional desistants of similar products to subsit such sata.
- 7. Fig. the labeling of more lists deliverable you release the reserve to real test:
 - i. Prile correct "III ori title car tell-6."
 - Proof Section AT: ("Toilet 1 Smatthers") on page AD () as Sirection for the Worldt. (The Agency has brocked out the Action in the molesman to pellogy of the Arollet.)
 - . The property of the propert

is a new to the contract of t

	ATTACHMENT	15	APPL	ıc	ABL	E
--	------------	----	------	----	-----	---

SIGNATURE OF APPROVING OFFICIAL

DATE

A stamped copy of the label is enclosed for your records.

Sincerely,

WS Walter C. Francis

Acting Product Manager (32) Antimicrobial Program Branch Registration Division (H-7504C)

Enclosures

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DX SOCIUM HYPOCHLORITE 10%

DANGER: Corrosive. May cause severe skin irritation or chemical burns to broken skin. Causes eye 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 some as possible. Do not return until odors have dissipated.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Keej, out of takes, streams or ponds. Treated effluent cannot be discharged into takes, streams, ponds or public waters unless a discharge per mit is obtained. For guidance, contact the regional office of the Environmental Protection Agency.

PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing 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 mucuous membranes.

٠:۵.

ACTIVE INGREDIENT:	% Z; WT.
SODIUM HYPOCHLORITE	10%
INERT INGREDIENTS	90%

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID: If on skin, wash with plenty of soap and water. If in eyes, flush with water for at least 15 minutes. Get medical attention. If swallowed, drink large quantities of milk or gelatin solution or, if these are not available, drink large quantities of water. Do NOT give vinegar or other acids. Do NOT induce vorniting. Get prompt medical attention

See additional precautions on side panel.

NET CONTENTS: 54 GALLONS

EPA REG. NO.

EPA EST. NO.

NOWARRANTY, EXPRESS ORIMPLIED. O TO JERCHANTABILITY FITNESS FOR A PARTICULAR PROSE 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 THE PRODUCT.

Manufactured by

DX SYSTEMS COMPANY 9401 ETIWANDA AVE. FONTANA, CA. 92335 NOV 0 7 1990

A ZPA Letter Detect

Taker the Featurel Inspections. Fungicide, and Nodesticele Act 20 arounded, for the particular Supportered under EFA Reg. No.

STORAGE AND DISPOSA

o rect sunlight. In case of a spill, flood a empty container thoroughly with water multiple or bury in an approved lai used should be diluted with water and o resulting from the use of this product approved waste disposal facility. Do no storage or disposal

DIRECTION

IT IS A VIOLATION OF FEDERAL LAW TINCONSISTENT WITH ITS LABELING

Desired Swingsh
Australia Chrome (By Ring
10 PPM
10 PPM
15 PPM
25 PPM
35 PPM
50 PPM
100 PPM
200 PPM
500 PPM
500 PPM
100 PPM
100 PPM

IMPORTANTI ALL SANI

FOR ALL FOOD CONTACT SURFACES All by flushing, scraping and, when neces good detergent or compatible cleaner application of PV CHLOR solution. With a full control of the c

Drain solution and airdry Doing Dix chlor solutions must not be rea fresh solution daily if the old solution

SANITIZATION OF POROUS I

SPRAY/FOG METHOD — Preclean all surfactionine sanitizing solution of sufficient surface of 8 oz. product with 10 gallons of wat can resist hypochlorite solutions. Atways e polable water after use. Thoroughly spray or sanitizer to drain. Vacate area for at least 2 surfaces with a 200 ppm available chlorid solution by thoroughly mixing 2.5 oz. of the

SANITIZATION OF NONPOROUS
SPRAY/FOG METHOD - Precision all surf.

chlorine solution to control bacteria, mold (

tpare a 200 ppm sanifizing solution of sufficient size by thoroughly tim a ratio of 2 oz. product with 10 gallons of water. Prepare a 600 horoughly mixing the product in a ratio of 6 oz. product with 10 Use apray or logging equipment which can resist hypochlorite empty and rinse spray/log equipment with potable water after use, or log all surfaces until wet, allowing excess sanitizer to drain. East 2 hours. Prior to using equipment, rinse all surfaces treated with an with a 200 ppm solution.

SWIMMING POOL WATER DISINFECTION

oring start-up, superchlorinnte with 52 to 104 oz. of product for each water to yield 5 to 10 ppm available chlorine by weight. Check the highne with a test lot. Adust and maintain pool water pH to between and maintain the alkalinity of the pool to between 50 to 100 ppm.

at, add manually or by a leeder device 11 oz, of this product for each water to yield an available chlonne residual between 0.6 to 1.0 ppm ed pools should maintain a residual of 1.0 to 1.5 ppm available et, available chlorine residual and alkalinity of the water frequently st loss. Frequency of water treatment will depend upon temperature

necessary, superchlorinate the pool with 52 to 104 oz. of product attors of water to yield 5 to 10 ppm available chlorine by weight, vallable chlorine with a test lut. Do not reenter pool until the chlorine in 1.0 to 3.0 ppm.

naming pool season or when water is to be drained from the pool, lowed to dissipate from treated pool water before discharge. Do not it within 24 hours prior to discharge.

LS — While water is sa't clear & clean, apply 3 oz. of product per e filter is running, to obtain a 3 ppm available chlorine residual, as ustable test kill. Cover pool, prepare heater, filter and heater comby following manufacturer's instructions.

ISINFECTION OF DRINKING WATER (POTABLE)

Mix a ratio of 1 oz. of this product to 100 gattons of water. Begin n with a hypochlorinator until a free available chlorine residual of at to more than 0.6 ppm is attained throughout the distribution system. By with a chlorine test M. Bacteriological sampling must be conducted less than that prescribed by the National Interim Primary Drinking Contact your local Health Department for further details.

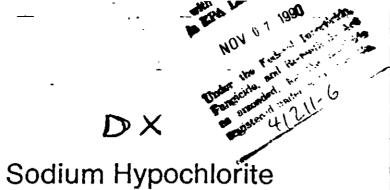
MS: DUG WELLS Upon completion of the casing (lining) with a 100 ppm available chlorine solution using a :3ff in can be made by thoroughly muong 1 oz. of this product into 10 ther covering the well, pour the sanitizing solution into the well pesteeve opening and the pipeline. Wash the exterior of the pumpine sanitizing solution. Start pump and pumpiwater until strong odor is noted. Stop pump and west at less! 24 hours. After 24 hours flush of chlorine have been removed from the water. Consult your local for further details.

degrades with age. Use a chlonne test kil and increase dosage as 1 the required level of available chlonne.

THE DIXICHLOR SUPPLEMENTAL BOOKLET ADDITIONAL DIRECTIONS AND USES.



.



DIRECTIONS FOR USE

Manufactured by

DX SYSTEMS COMPANY

300 JACKSON HILL HOUSTON, TEXAS 77007

TABLE OF CONTENTS

		Page
	HYPpeniamProducts	5
	Statement of Practical Treatment	6
	Precautionary Statements	6
	Storage and Disposal	7
	Directions For Use	7
III.	Dilution Conversion Chart	8
	Formula Definition	8
IV.	Agricultural Uses	9
	A. Post Harvest Protection	9
	B. Food Egg Sanitization	9
	C. Fruit and Vegetable Washing	9
V.	Artificial Sand Beaches	9
••	radical care occurrence	•
VI.	Asphalt or Wood Roofs and Sidings	9
VII.	Aquacultural Uses	9
	A. Fish Ponds	9
	B. Fish Pond Equipment	9
	C. Main Lobster Ponds	10
	D. Conditioning Live Oysters	10
	E. Control of Scavengers in Fish Hatchery Ponds	10
VIII.	Phat Bottoms	10
DX.	Cooling Tower/Evaporative Condenser Water	10
-	A. Slug Feed Method	10
	B. Intermittent Feed Method	10
	C. Continuous Feed Method	10
	D. Cooling Tower/Evaporative Condenser	
	Water Treatment Chart	11
X.	Emergency Disinfection After Droughts	11
,_	A. Supplementary Water Supplier	11
	B. Water Shipped In By Tanks, Tank Cars, Trucks, Etc.	11
XI.	Emergency Disinfection After Fires	11
^ı.	A. Cross Connections or Emergency Connections	11
	• •	_
Xì.	Emergency Disinfection After Floods	11
	A. Wells	11
	B. Reservoirs	12
	C. Basins, Tanks, Flumes, Etc.	12
	D. Filters	12
	F. Dietzibution System	12



		Page
XIII.	Emergency Disinfection After Main Breaks	12
******	A. Mains	12
	736 ISSENTED ASSOCIATION OF STREET, ST	12
XIV.	Disinfection of Drinking Water	12
	A. Public Systems	12
	B. Individual Systems	13
	1. Dug Wells	13
	C. Individual Water Systems	13
	Drilled, Driven and Bored Well	13
	2. Flowing Artesian Wells	13
		13
	— · J. · · · · · · · · · · · · · · · · ·	
	E. MEAT AND POULTRY PLANT TREATMENT	13
XV.	Public Water System	13
	A. Reservoirs - Algae Control	13
	B. Mains	13
	C. New Tanks, Basins, Etc.	13
	D. New Filter Sand	14
	E. New Wells	14
	F. Existing Equipment	14
XVI.	Farm Premises	14
XVII.	Laundry Sanitizer	14
	A Household Laundry Sanitizers	14
		-
		14
	2. In Washing Suds	14
	Commercial Laundry Sanitizers	14
XVIII.	Pulp and Paper Mill Process Water System	15
	A. Slug Feed Method	15
	B. Intermittent Feed Method	15
	C. Continuous Feed Method	
		15
	Treatment Chart	15
XIX.	Sanitization of Nonporous Food Contact Surfaces	16
	A. Rinse Method	16
		16
	C. Flow/Pressive Method	16
	D. Clean-In Place Method	16
	E. Spray/Fog Method	16
XX	Sanitization of Porous Food Contact Surfaces	17
	A. Rinse Method	17
	B. Immersion Method	17
	C. Spray/Fog Method	
	vi opiejri og mediou	17



11.1

			Page
XXI.	Sanit	Ization of Nonporous Non-Food Contact Surfaces	17
	A	Rinse Method	17
	8.	Immersion Method	17
	C.	Spray/Fog Metho1	17
XXII.	Disini	fection of Non-Food Contact Surfaces	17
	Α.	Rinse Method	17
	8.	Immersion Method	17
XXIII.	Sanit	ization of Porous Non-Food Contact Surfaces	18
	A.	I WITH THE PROPERTY OF THE PRO	18
	B.	Immersion Method	18
	C.	Spray/Fog Method	18
XXIV.	Sewa	ge and Wastewater Effluent Treatment	18
XXV.	Sewa	ige and Wastewater Treatment	18
	A.		18
	В.	Filter Beds - Slime Control	18
XXVI.	Şanit	ization of Dialysis Machines	19
XXVII,	Spas	, Hot-Tubs, Immersion Tanks, Etc.	19
	A.		19
		1. Maintaining the Water	19
		2. After Each Use	19
		3. Periods of Disuse	19
	В.	Hubbard and Immersion Tanks	
	8.	Hydrotherapy Tanks	19
XXVIII.	Swin	nming Pool Water Disinfection	
	A.	The state of the s	
	В.		
	C.	Superchlorination	
	D.	— · · · · · · · · · · · · · · · · · · ·	
	E.	Winterizing Pools	
	F	Swimming Pool Disinfection Chart	20

; ; ;;

 $\hat{t} = t - \epsilon \cdot \eta$



DX SODIUM HYPOCHLORITE PRODUCTS

DX	SODIUM HYPOCHWAME	12.5%	EPA Reg. No.	XXXXXXX
	ACTIVE INGREDIENT:			
	Sodium Hypochlorite	· • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	12.5%
	INERT INGREDIENT:			87.5%
ĽΧ	SODIUM HYPOCHLORITE ACTIVE INGREDIENT: Sodium Hypochlorite INERT INGREDIENT:			10.0%

рх	SODIUM HYPOCHLORITE 5.25% EPA Reg. No.	xxxxx
	ACTIVE INGREDIENT:	
	Sodium Hypochlorite	5.25%
!.	INERT INGREDIENT:	94.75%



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 getatin 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.

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

These products are toxic 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. EPA.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXYDIZING AGENT: Mix only with water according to Label or Directions For Use Booklet Directions. Mixing either of these products 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 dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be use should be diluted with water before disposal in a sanitary sewer. DO NOT reuse container but place in trash collection. DO NOT contaminate food or feed by storage, disposal or cleaning of equipment.

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

DIRECTIONS FOR USE

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 https://www.solution. Wet all surfaces thoroughly with https://www.solution.

Drain solution and airdry. Do not wash with potable water after sanitizing. HIPDCHEOR solutions must not be re-used for sanitizing purposes. Prepare a fresh solution daily if the old solution becomes diluted or solled.



SODIUM HYPOCHLORITE

The DILUTION CONVERSION CHART provided below covers
Sodium Hypochlorito Products manufactured by DX 57576MS
COMPANY. 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.

DILUTION CONVERSION CHART Ш.

Desired Strength	trength Gallons 17quid Oz. 5		L'quid Oz. Sodium Hypochlorite				
Aveil, Chlorine (by Weight)	Water	12.5%	10%	8%	5.25%		
SPPM	100	.5	.75	1.0	1.5		
10 PPM	100	1.0	1.5	1.5	2.5		
15 PPM	100	5	20	2.5	4.6		
25 PPM	100	2.5	3.5	4.0	6.0		
35 PPM	100	3.5	4.5	5.5	6.5		
50 PPM	100	5.0	6.5	8.0	12.0		
100 PPM	10	1.0	1.5	2.0	2.5		
200 PPM	10	2.0	2.5	3.5	5.0		
500 PPM	10	5.0	6.5	6.0	12.0		
600 PPM	10	6.0	8.0	9.5	15.0		
1000 PPM	10	10.5	13.0	16.0	24.5		
5000 PPM	10	51.0	64.0	50.0	122.0		
10000 PPM	10	102.0	128.0	160.0	244.0		

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

(PPM avail, Cl₂) (Gal. Water) (128) **Ounce of Product** (% Active Ingredient) (10,000)

Formula Definition:

Ounce of Product PPM Available Cl2 **Dilution Gallons Water**

- = Ounces of HYPOCHLO & Product to Use
- What is Required You Specify Quantity
- 128 oz./gal. Constant 128 (%) Percent Active Ingredient = Sodium Hypochlorite Strength

10,000

CUSTOMER: GraphicSource, Obde Chem. L1SC: IG-4 DATE: 9-21-88 FILE NAME: dx-SDbk2 STYLE: HE02, 03



IV. AGRICULTURAL USES

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 MYPOCHLOF 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.

C. Fruit and Vegetable Washing

Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix https://www.c.k.c.in.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.

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 ... to the water if the available chlorine level is below 1 ppm alter 5 minutes. Return 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

3

C. Main Lobster Ponds

Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix HYRCHUE 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. Allowwater 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 HYPCCHUCA to 10,000 gallons of water at 50 to 70°F to obtain 0.5 ppm available chlorine. Expose dysters 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 flyPoCrkoR with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish 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 HYPC HEEL 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 HyRoCrition, 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 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.

8. Intermittent Feed Method

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

CUSTOMER: GrephicSource, Obile Chem. DISC, IG-6 DATE: 9-21-88 FRE NAME: dx-SObk3 STYLE: HEO2, 03



Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz, of 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

8.4 4	Ounce f	Ounce HYPO 1200 10.000 Gallors Water				
Method	12.5%	10%	84	5.25%		
Slug Feed To obtain 5-10 ppm	52-104	68-135	84-66	130-260		
Subsequent Dose Maintain 1 ppm residual	11	13	16	25		
Intermittent Feed To obtain 5-10 ppm	52-104	68-135	84-166	130-260		
Subsequent Dose Maintain 1 ppm residual	11	13	16	25		
Continuous Feed To obtain 5-10 ppm	52-104	68-135	84-166	130-260		
Subsequent Dose* Maintain 1 ppm residuai	1	1.5	2.0	2.5		

("per 1000 gel.)

X. 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 kiu.

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 HYPOCHLOR-to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

XI. 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 text kit.

XII. EMERGENCY DISINFECTION AFTER FLOODS

A. Wells

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



B. Reservoirs

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

C. Basins, Tanks, Flumes, Etc.

Thoroughly clean all equipment, then add 20 oz. of 12.5% to 5 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 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%, ps. 10% BYFOC HEEP can be used)

D. Filters

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 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 80 oz. of 12½% #YPOCHUR. 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. (Using ratio method to calculate concentration, 5.251., or 10% #YPOCHUR can be used.)

E. 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.

XIII. EMERGENCY DISINFECTION AFTER MAIN BREAKS

A. Mains

Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flowwhen 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.

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

A. Public System

Mix a ratio of informula 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.

CUSTOMER: GraphicSource, Dixie Chemi, DISC: KG-6 DATE: 9-21-88 FILE NAME: dx-SDbk4 STYLE: HE02, 03 (12)

B. Individual Systems

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 wait 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 hrive 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.
- 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.

D. Emergency Disinfection

When boiling of water for 1 minute is not practical, water can be made potable by using this product. *Prior* to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom, Decant the *clarified* contaminated water to a clean container and add 1 to 3 drops, (dependent on product strength) to 20 gallons 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 madinal palatable by pouring it between clean containers for several times.

E. MENT AND POULTRY
PUBLIC WATER SYSTEM

PLANT TREATMENT

- 5EE

ATTACHMENT PP 13/2

VIII.

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.

B. Mains

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

C. New Tanks, Basins, Etc.

Remove all physical soil from surfaces. Place 20 oz. of 121/4 Hyro-Creck 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% Hyro (Moderan be used.)

CUSTOMER: GraphicSource, Disus Chem
DISC: IG-8
DATE: 9-21-48
THE NAME: dx-SDbk 5
STYLE, RE02, 03

(13)

E. 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. Sodium Hypochlorite must be dispensed at a constant and uniform level to insure that a controlled rate is maintained.

O. New Filter Sand

Apply 80 oz. of 121/16 HYPOLHUL 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% HYPOLHUL can be used.)

C New Welle

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 further treatment is necessary.

F. Existing Equipment

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.

XVI. FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, 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 poultry or employ equipment until chorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

XVII. LAUNDRY SANITIZERS

A. Household Laundry Sanitizers

- 1. IN SOAKING SUDS: Thoroughly mix HYPCHCO 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 HY/OCHEAE in wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.

B. Commercial Laundry Sanitizers

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix HYPOCICOL with water to yield 200 ppm available chlorine. From "by 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, if solution has been allowed to stand. Add more HYPOCHOND if the available chlorine level has dropped below 200 ppm.



2125

XVIII. PULP AND PAPER MILL PROCESS WATER SYSTEMS

A. Slug Feed Method

IN TIAL DOSE: When system is noticeably fouled, add appropriate ... ount of HYPC HUSE per 10,000 gallons of water in the system to ubtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add appropriate amount of PROCINGE 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 begun.

B. Intermittent Feed Method

INITIAL DOSE: When system is noticeably fouled, add appropriate amount of HTPCCHOP—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 http://wwf...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 Llowdown. Badiy fouled systems must be cleaned before treatment is begun.

C. Continuous Feed Method

INITIAL DOSE: When system is noticeably fouled, add appropriate amount of Hmocine デ 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.

D. Pulp and Paper Mill Process Water Systems Treatment Chart

Method	Ounce HWECHIGE J 10,000 Gallons Water					
	12.5%	10%	8%	5.25%		
Slug Feed To obtain 5-10 ppm	52-104	68-135	84-66	130-260		
Subsequent Dose Maintain 1 ppm residual	11	13	16	25		
Intermettent Feed To obtain 5-10 ppm	52-104	68-135	84-166	130-260		
Subsequent Dose Maintain 1 ppm residual	11	13	16	25		
Continuous Feed To obtain 5-10 ppm	52-104	68-135	84-166	130-260		
Subsequent Dose* Maintain 1 ppm residual	1	1.5	2.0	2.5		

(*per 1000 gäl.)



XIX. SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

A. Rinse Method

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be 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 hyperiod— with 10 gallons of water. If no test kit is available, 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. If solution contains less than 50 ppm available chlorine as determined by a suitable test kit, either discard the solution or add sufficien' product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overhight.

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

B. Immersion Method

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to 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 sanifizing purposes.

C. 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.

D. 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.

E. Spray/Fog Method

1 4

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. 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.



XX. SANITIZATION OF POROUS FOOD CONTACT SURFACES

A. 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 all 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 fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution.

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 equipment overnight.

B. 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. From 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

Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size and apply using 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.

XXII. DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

A. 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.

B. Immersion Method

Prepare a disinfecting solution in an immersion tank, to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner, Pnor to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the sanitizer to drain. Do not noise equipment with water after treatment.

(17)

CUSTOMER: GraphicSource, Dible Chem DISC: IG-6 DATE: 9-21-86 RILE NAME: dx-SDbk7 STYLE: HE02, 03

XIII. SANITIZATION OF POROUS 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/fog equipment with potable water after use. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

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 coliform 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 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.

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. Filter Beds - Slime Control

Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 80 oz. of 121/4% http://www.per 20 sq./ft. evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter. (Using ratio method to calculate concentration, 5.25%, or 10% there was can be used.)

(18)

XXVI. SANITIZATION OF DIALYSIS MACHINES

Flush equipment thoroughly with water prior to using this product. Thoroughly mix HYPDCHLOR TO 10 pallons 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 disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by ADAC 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 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, AR 85021.

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

A. Spas/Hot-Tubs

Using Chart or Formula, calculate and approximate an amount of IMPO-UHLOR: 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 by rocked solution over the surface to maintain a chlorine concentration of 5 ppm.
- 2. After Each Use: Shock treat to control odor and algae, using HNO-CHLOR atr a rate of 8 ounces of 121/4% to 500 gallons of water. (Use chart or formula when using 5.25. or 10% HYPOCHOR)
- 3. Periods of Disuse: During periods of disuse, add #7PvCrkvR daily to maintain a 3 ppm chlorine concentration.

8. Hubbard and Immersion Tanks

Before patient use add hypochuse, 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 121/4% Hypochuse, 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% Hypochuse.)

C. Hydrotherapy Tanks

Add #ypother: 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 filter continuously. Drain pool weekly, and clean before refilling.

CUSTOMER; GraphicSource, Dixie Chem. DISC: IG-8 DATE: 9-21-88 FILE NAME: dx-SDbk8 STYLE: HE02, 03



XXVIII. SWIMMING POOL WATER DISINFECTION

A. New Pool or Spring Start-Up

For a new pool or spring start-up, superchlorinate with HPC (102 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 liffor number to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual, and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

C. Superchlorination

Every 7 (seven) days, or as necessary, superchlorinate the pool with https://de.ch.orine.ch.o

D. End of Swimming Pool Season

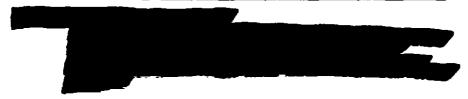
At the end of the swimming pool season or when the water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

E Winterizing Pool

While water is still clear, and while filter system is in service, apply Hyro-eHor 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

Method	Ounce i 7/f0(rk 0 # J10,000 Gallons Water					
	12.5%	10%	5%	5.25%		
Start-Up	52-104	64-128	89-160	122-244		
Maintenance	11	13	16	25		
Superchlorination	52-104	64-128	80-160	122-244		
Winterizing	30	39	16	75		



CUSTOMER: GraphicSource, Obse Chem. DISC: IG-6 DATE: 9-21-88 FILE NAME: dx-SObk9 STYLE: HE02, 03

