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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS: 767) WASHINGTON, DC: 20460	57425-3 FEB 2 1995
NOTICE OF PESTICIDE:	NAME OF PESTICIDE PRODUCT
(Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended)	Hypochlor 10 x 70g Tablets for Klorman Chlorinator
AME AND ADDRESS OF REGISTRANT (Include 21P code)	
□ Deutrick & Associates, Inc. 1013 East Taylor Run Parkway Alexandria, VA 22302	Τ.
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NGTE: Changes in labeling formula differing in substance for submitted to and accepted by the Registration Division prior productalways refer to the above U.S. EPA registration num	rom that accepted in connection with this registration must be r to use of the label in commerce. In any correspondence on this iber.
On the basis of in mation furnished by the registrant, the state Federal Insecticide, Fungicide, and Rodenticide Act.	above named pesticide is hereby Registered/Reregistered under
A copy of the labeling accepted in connection with this Rep	gistration/Reregistration is returned herewith.
Registration is in no way to be construed as an indorsement health and the environment, the Administrator, on his motion	t or approval of this product by this Agency. In order to protect n, may at any time suspend or cancel the registration of a pest-
icide in accordance with the Act. The acceptance of any na Act is not to be construed as giving the registrant a right to by others.	ime in connection with the registration of a product under this been covered becausive use of the name or to its use if it has been covered.
Based on your response to Document, EPA has reregistered the comments recorded in the s is taken under the authority o Insecticide, Fungicide, and Ro Reregistration under this sect continual reassessment of pest of data at any time to maintai	the Reregistration Eligibility the above named product subject to succeeding paragraph. This action of section 4(g)(2)(C) of the Federal odenticide Act, as amended. ion does not eliminate the need for cicides. EPA may require submission on the registration of your product.
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Ruth G. Douglas Product Manager 32 Antimicrobial Program Branch Registration Division (7505C) - 94)

Enclosure

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[2-sided pages]

Hipochlor. 10 x 70 g TABLETS FOR

KLORMAN™ CHLORINATOR.

KEEP OUT OF REACH OF CHILDREN

DANGER.

CONTAMINATION MAY CAUSE FIRE MIX ONLY INTO WATER SEE PRECAUTIONARY STATEMENT ON BACK PANEL.

ACTIVE INGREDIENT:	68
Calcium Hypochlorite	55 8
INERT INGREDIENTS	
TOTAL	100 8

AVAILABLE	CHLOR	INE	63 %
EPA REG.	NO.	57425-3	
EPA EST	NO	57425 - 54 -002	

FIRST AID (PRACTICAL TREATMENT)

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If on skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

If inhaled: Remove person to fresh air. Get immediate medical attention.

If swallowed: Drink large quantities of water. Do not induce vomiting. Call a physician Immediately.

If in eyes: Flush eyes with water for at least 15 minutes. Call a physician immediately.

> **Control Chemical** D/b/a Deatrick and Associates 1013 East Taylor Run Pkwy Alexandria, VA 22302



Nett weight: 1 lb 5 oz (10 x 70 gram tablets)

with CONDIENTS in EPA Letter Dated:

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ACCEPTED with COMMENTS in EPA Letter Dated.

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PRECAUTIONARY STATEMENTS:

Under the Federal Insesticide, Fungicide, and Rodenticide Act (a amended, for the pesticide registered under FDA Roy No.

And the pesticide and throat. Avoid breathing dust and fumes. HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER. Highly 742 5-3 corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, or skin or on clothing. Do not handle with bare hands. Wear goggles or face shield and use rubber gloves and only thoroughly clean dry utensils when handling. Irritating to nose and throat. Avoid breathing dust and fumes. Remove and wash contaminated clothing before reuse.

CHEMICAL HAZARDS: DANGER. Strong oxidizing agent. Mix only into water. Contamination may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible fire and explosion. Avoid any contact with flame or burning material, such as a lighted cigarette. Do not contaminate with moisture, garbage, dirt, chemicals including other pool chemicals, pool chlorination compounds, household products, cyanuric acid pool stabilizers., soap products, paint products, solvents, acids, vinegar, beverages, oils, pine oil, dirty rags or any other foreign matter.

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EMERGENCY HANDLING: in case of contamination or decomposition, if possible, isolate container in open and well - ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless this product is specifically identified and addressed in and NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

Keep this product dry in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case off decomposition isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container. Do not reuse empty container but place in trash collection. Do not contaminate food or feed by storage or disposal or cleaning of equipment.

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DIRECTIONS FOR USE

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It is a violation of federal law to use this product in a manner inconsistence Under the Featled insecticide, Fungicide, and Rodenticide Act as amonded, for the posticide registered under EPA Bag, Na with its labeling.

STORAGE AND DISPOSAL

Keep this product dry in a tightly closed container, when not in use? Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all material tefore discarding this container. Do not reuse empty container but place in trash collection. Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

SWIMMING POOL WATER DISINFECTION

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

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

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

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

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

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT-TUBS - Apply 0.5 oz. of product per 500 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.9. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 0.5 oz. of product per 500 gallons of water over the surface to maintain a chlorine concentration of 5 ppm, * * * *

In EPA Letter Dated suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with mater after of treatment. tras laboraldcide

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not be re-used for sanitizing purposes.

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

CLEAN-IN-PLACE METHOD - Throughly clean equipment after use. Prepare a volume of a 200 pgm available chlorine sanitizing solution equal to 110 % of volume capacity of the equipment by mixing the product in a ratio of 1 oz. product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to insure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine. Rinse system with potable water prior to use.

SPRAY/FOG METHOD - Preclean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by throughly mixing the product in a ratio of 1 oz. product with 20 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 3 oz. product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Throughly spray or fog all sufaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution with a 200 ppm solution.

SANITIZATION OF POROUS FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by throughly mixing 3 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Rinse equipment with water after ... treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by throughly mixing, in an immersion tank, 3 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the

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SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by throughly mixing 3 oz. o this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, ri se all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water arter treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by throughly mixing, in an immersion tank, 3 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY/FOG METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by throughly mixing the product in a ratio of 3 oz. of this product with 20 gallons of water. Use spray or fogging equipment which car. resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. prior to using equipment, throughly spray or fog all sufaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

SEWAGE & 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, of the chlorinated effluent has been reduced to or below the maximum permited by the controlling regulatory jurisdiction.

On the average, satisfactroy 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 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.

1. Mixing: It is imperative that the product and the wastewater by instantaneously and completly flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.

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

3. Dosage/Residual Control: Successful dispression is extremely dependent on response to fluctuating chlorine demand to maintain a pr determined, desirable chlorine level. Secondary effluent should



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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 grain of this product to 1 gallon of water. One grain is approximately the size of the letter "O" in this sentence. Allow the treated ments water to stand for 30 minutes. Properly treated water should have a slighth COMMUNICATION of the sentence of the stand for 30 minutes. Letter Duted: 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. FUNECIDE, and RO

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PUBLIC WATER SYSTEMS

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amended, istered under RESERVOIRS - ALCAE CONTROL: Hypochlorinate streams feeding the reservoir resultable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

)MAINS - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a 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. - Remove all physical soil from surfaces. Place 4 oz. of - this product for each 5 cubic feet of working capacity (500 ppm available chlorine. Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

NEW FILTER SAND - Apply 16 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

NEW WELLS - Flush the casing with a 50 pcm available chlorine solution of water) containing 1 oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 4 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 1 oz. of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS

WELLS - Thoroughly flush contaminated casing with a 500 ppm available thlorine solution. Prepare this solution by mixing 1 oz. of this product with 10 gailons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient

EMERGENCY DISINFECTION AFTER MAIN BREAKS

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MAINS - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end_{EP} Cope hew main section after a 24 hour retention time. When chlorination is completed end by stem must be flushed free of all heavily chlorinated water. FEB

COOLING TOWER/EVAPORATIVE CONDENSER W

Under the reaera insectucide Pungicide, and Rockmucide Actas amanded, for the Posticity 10 to realed, Posticity 10 to realed, Posticity 10 to SLUG FEED METHOD - Initial Dose: When system is noticably tooled 20 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 2 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned befor treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticably fouled, apply 10 to 20 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this intial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

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Subsequent Dose: When microbial control is evident, add 2 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this intial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

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

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 3,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

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

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AGRICULTURAL USES POST-HARVEST PROTECTION - Potatoes can be sanitized after clean for the reduced of the reduc POST-HARVEST PROTECTION - Potatoes can be sanitized after crossing of the post-storage by spraying with a sanitizing solution at a level of 1 gallons of the post-tide cide Act a sanitizing solution per tons of potatoes. Thoroughly mix 1 oz. of this product N_{A} 2 5 to 10 gallons of water to obtain 500 ppm available chlorine.

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. This solution is made by thoroughly mix 1/4 Tsp. of this product to 200 gallons of water. The beg 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.

FOOD EGG SANITIZATION - Throuoghly clean all eggs. Thoroughly mix 1 oz. of this product with 20 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the went sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughl dry before casing or breaking. Do not apply a potable water rinser. The solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 oz. of this product in 200 gallons of water to

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available chlorine by mixing 0.5 oz. of product 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.

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SANITIZATION OF DIALYSIS MACHINES

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

This product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective 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 their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program which includes bacteriologiocal monitoring of the hemodialysate delivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes.

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

TOILET BOWL SANITIZERS

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

[Claims are limited to sanitization. No claims for disinfection are permited.

ASPHALT OR WOOD ROOFS AND SIDINGS

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

BOAT BOTTOMS

To control slime on boat 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 3.5 oz. of this product to this water to obtain a 35 spm 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. ACCEPT With COM

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Under the Feature Contraction Function and Rodenteeder Action amended. for the Feature registered under the Feature Rog. No.

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