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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 25 1992

Mr. Lawrence Epstein
Alden Leeds, Incorporated
55 Jacobus Avenue
South Kearny, N. J. 07032

Dear Mr. Epstein:

Subject: Nu Clo Slow Dissolving Chlorinating Tablets
EPA Registration No. 7124-12
Your Amendment Dated April 15, 1992

This is in response to your amendment of the revised printed labeling for the subject product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your record.

If you have any questions about these comments, please call Marianne Clark at (703) 305-7879.

Sincerely yours,

Ruth Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.
PRACTICAL TREATMENT: If Swallowed: Promptly drink large quantity of water. Do not induce vomiting. Call a physician immediately. 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 in eyes: Flush with cold water for at least 15 minutes. Get medical attention.
ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact the Regional Office of EPA.
PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT. Mix only with water. Use clean dry utensils. Do not add this product to any cleaning device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion.

SPECIAL PRECAUTIONS
PLEASE READ BEFORE OPENING CONTAINER

PREVENTION OF PHYSICAL INJURY
1. This product emits a powerful chlorine gas. Do not open container indoors.
-Hold away from face when opening to avoid breathing fumes.
2. This product is dangerous when not used properly.

MISUSE MAY RESULT IN SERIOUS PERSONAL INJURY REQUIRING HOSPITALIZATION
RELATED COMPLICATIONS MAY LEAD TO DEATH
Do not mix with any other chemicals
Mixing with other chemicals may cause a violent and instantaneous chemical reaction.
Do not add water to this product-Do not add this product to water in a pool-Do not take advice from others
Do not experiment-Follow label instructions exactly.

PREVENTION OF PROPERTY DAMAGE: Contact between this product in its undissolved state and vinyl liners, painted surfaces or other property in or around the pool will result in permanent bleaching of the color.

These tablets are manufactured with the most concentrated form of dry chlorine available today. They are consistent in size and contain cyanuric acid - a stabilizer that prevents ultra violet light from affecting chlorine in the pool. These tablets allow you to achieve proper chlorine residuals with a minimum of effort and easily maintain beautiful, clean sparkling water. These tablets are designed for use in off-line, flow- through, soaker-type chlorinating devices. Follow the manufacturer's directions for use supplied with your particular device.

DIRECTIONS FOR USE
It is in violation of federal law to use this product in a manner inconsistent with its labeling.
1. Adjust pool water pH to 7.2-7.6. For pools with copper plumbing best pH factor is 7.6-7.8.
2. If the pool has not been previously stabilized with conditioner and stabilizer (cyanuric acid) add the correct dosage. Follow the instructions for use on the label of that product.
3. Use a shock treatment to establish a chlorine residual. Follow the instructions for use on the label of that product. If there is no chlorine residual on the following day repeat the dosage until chlorine residual of at least 1 ppm is found 24 hours later without additional dosages.
4. Follow directions for use with your particular feeding device as prescribed below.
[redacted] heat waves or periods of heavy bathing loads more chlorine will be required per day to maintain chlorine residual. Also check pH to keep in proper range as pH has a direct affect on chlorine [redacted] The pH of these tablets is on the acid side and will tend to reduce the pH and total alkalinity of the pool water. Also, the pH should be brought back into range when it falls or climbs due to [redacted] makeup water, windblown dust or any other reason, by the periodic additions of sodium carbonate or sodium hydrogen carbonate to raise pH, or sodium bisulfate to lower pH.
WHEN USED TO FILL CHLORINATOR:
1. Fill chlorinator with tablets. The rate of solution of the tablets depends upon the volume of water flowing through the chlorinator. Keep chlorine residual in pool above 1 ppm at all times.
2. Adjust valves on chlorinator so that water flow can be observed passing through. Keep chlorine residuals between 1 and 2 ppm by increasing or decreasing flow with proper valve settings.

Cartridge Configuration #1

PRINCIPLES OF OPERATION
Most automatic cartridge type feeding devices commonly used are adjusted by varying the amount of water exposed to these tablets. This is done in a combination of ways:
1. Increasing/decreasing the flow of water over the tablets.
2. Increasing/decreasing the number of tablets exposed to the water.
Water flow is changed by adjusting a valve supplying the water to the chemical chamber and/or punching or alternately covering additional holes on the cartridge.
The number of tablets exposed to the water is adjusted by regulating the level of the water in the chlorinator or alternately regulating the level of the cartridge in the water.

DIRECTIONS FOR USE
Following the manufacturers instructions for use for your particular chlorinator, [redacted] punch or slice the appropriate number on the cartridge and, insert into the chlorinator. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1 and 1.5 ppm at all times. Adjusting chlorination rate as per PRINCIPLES OF OPERATION above.

Cartridge Configuration #2

INSTRUCTIONS FOR USE IN EZ CHLOR TYPE FEEDER:
Chlorination feed rate is regulated by the height of the water flowing within the cartridge and the amount of water flowing through the feeder.
1. Using the tool provided with the feeder, punch out the first 3 holes on either side of the cap end of the cartridge and remove the protective sticky paper from the cap.
2. Place the cartridge into the feeder and turn until it drops into place. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1.0-1.5 ppm. If chlorine level is too high, reduce flow through the flow meter. If chlorine level is too low, increase flow through meter or punch the next set of holes. The next highest holes should be punched as needed to maintain the required chlorine residual.

INSTRUCTIONS FOR USE IN SYLVAN TYPE FEEDER:
1. Using a sharp tool, punch out the first 3 holes on either side of the cap end of the cartridge and remove the protective sticky paper from the cap.
2. Screw the cartridge into the thread provided on the underside of the stemmer cover and reassemble the stemmer. Check chlorine residual with a reliable test kit and regulate filter cycles to maintain a chlorine residual of between 1.0-1.5 ppm. If necessary, more holes may be punched to maintain at all times the prescribed dosage.

INSTRUCTIONS FOR USE WITH FLOAT RINGS:
[redacted] this cartridge in vinyl lined pools is not recommended as particles of chlorine may fall out and cause discoloration of the vinyl.
[redacted] placing cartridge into float use a sharp tool to punch out the first three holes on either side of the small end of the cartridge and one additional set of holes for each 5,000 gallons of pool capacity above 10,000 gallons. Remove protective label from cap.
Additional holes may be cut off to allow increased circulation so as to maintain a chlorine residual at all times of between 1.0-1.5 ppm, determined through the use of a reliable test kit. In addition, greater chlorination will occur if the floating cartridge is located in an area of high agitation, such as when it is tied with a piece of fishing line near the inlet of the pools filtration system. Conversely, lesser chlorination may be accomplished by moving the assembly further from areas of high agitation.

Cartridge Configuration #3

INSTRUCTIONS FOR USE IN EZ CHLOR TYPE FEEDER:
Chlorination feed rate is regulated by the height of the water flowing within the cartridge and the amount of water flowing through the feeder.
1. Using a knife, slice off all #1 tabs at the bottom of the cartridge.
2. Use the tool supplied with feeder to punch out one hole on the canister corresponding to your pool size as outlined below:

GALLONS	
5,000	A
10,000	B
15,000	C
20,000	D
25,000	E
30,000	F

3. Place the cartridge into the feeder and turn until it drops into place. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1.0-1.5 ppm. If chlorine level is too high reduce flow through the flow meter. If chlorine level is too low, increase flow through meter or slice off one of the #2 tabs. The next highest holes should be punched or additional tabs sliced off as needed to maintain the required chlorine residual. Flow valve should be adjusted to limit the flow of chlorine entering the water.

INSTRUCTIONS FOR USE IN CHARBEX TYPE FEEDER:
Chlorination feed rate is regulated by the height of the cartridge in the feeder and the amount of water flowing through the feeder.
1. Using a knife, slice off all #1 tabs at the bottom of the cartridge.
2. Using the tool provided with the feeder, punch out the holes marked "VENT"
3. Using the following chart, choose the number that best approximates the size, in gallons, of your pool.

10,000	1
15,000	2
20,000	3
25,000	4
30,000	5
35,000	6
40,000	7

4. Insert the cartridge into the feeder to the number chosen above, and twist 1/8 of a turn to engage the raised steps.
5. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1 and 1.5 ppm. If chlorine level is too high, reduce flow through the flow meter or twist cartridge out and reinsert one step higher at the next lowest number. If highest settings will not supply enough chemical, additional tabs should be sliced off in successive order and the cartridge repositioned so as to maintain the prescribed chlorine residual as determined by a reliable test kit.

INSTRUCTIONS FOR USE IN CHLOR-TROL TYPE FEEDER:

Chlorination feed rate is regulated by the height of the cartridge in the feeder and the amount of water flowing through the feeder.
1. Using a knife, slice off all #1 tabs at the bottom of the cartridge.
2. Using the tool provided with the feeder punch out the hole marked "VENT".
3. Position the cartridge in the feeder with step marked "1" over the left adjustment guide and "1" facing you. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1.0-1.5 ppm. If chlorine level is too high, reposition chlorinator one step toward "LESS". If chlorine level is too low reposition chlorinator one step toward "MORE". If necessary, additional tabs may be sliced off and the cartridge raised or inverted on the steps so as to maintain the prescribed chlorine residual as determined by a reliable test kit.

INSTRUCTIONS FOR USE WITH FLOAT RINGS:

Use of this cartridge in vinyl lined pools is not recommended, as particles of chlorine which may fall out can cause discoloration of vinyl. Before putting cartridge into float, use a sharp tool to slice off the three "A" tabs on the small end of the cartridge and punch one set of holes for each 5,000 gallons of pool capacity above 10,000 gallons. Additional holes may be punched to allow increased circulation so as to maintain a chlorine residual at all times of between 1.0-1.5 ppm, as determined through the use of a reliable test kit. In addition, greater chlorination will occur if the floating cartridge is located in an area of high agitation, such as when it is tied with a piece of fishing line near the inlet of the pool's filtration system. Conversely, lesser chlorination may be accomplished by moving the assembly further from the area of high agitation.

Cartridge Configuration #4

INSTRUCTIONS FOR USE IN KRATZ TYPE FLOAT:

Chlorination feed rate is determined by the height of the stake within the cartridge and the amount of water flowing through the feeder.
1. Using knife, slice off all of the elevated dimples on the cap and of the cartridge.
2. Remove child resistant cap from end of cartridge. LEAVE CAP PLUG IN PLACE.
3. At small end of cartridge, slice off the first small round hole.
4. Insert cap and into feeder and push down over the central stake.
5. Follow chlorinator instructions to regulate chlorine level in pool, increasing height of stake or flow to increase chlorination or decrease chlorination. Always remember to maintain a chlorine residual of between 1.0-1.5 ppm, as determined through the use of a reliable test kit.

INSTRUCTIONS FOR USE IN FOX/YORK TYPE FEEDER:

Chlorination feed rate is determined by the height of the cartridge in the feeder and the amount of water flowing through the feeder.
1. Using knife, slice off the 4 rectangular protrusions on the [illegible] interference of the small threaded end.
2. At cap end of cartridge, cut a small vent hole through one of the protrusions adjacent to the cap.
3. Rate of chlorination may be adjusted by screwing the cartridge into the chlorinator for more chlorine and out for less. In addition, follow chlorinator instructions to maintain a chlorine residual of between 1.0-1.5 ppm as determined by a reliable test kit. If needed, additional dimples located on opposite sides of the small end of the cartridge may be sliced off to afford greater circulation.

INSTRUCTIONS FOR USE WITH SCREW TYPE FLOAT RINGS:

Use of this cartridge in vinyl lined pools is not recommended as particles of chlorine may fall out and cause discoloration of the vinyl.
Before screwing cartridge into float, use a knife to slice off the first 2 dimples on either side of the small end of the cartridge, and one additional set of dimples for each 5,000 gallons of pool capacity above 10,000 gallons. Additional dimples may be cut off to allow increased circulation so as to maintain a chlorine residual at all times of between 1.0-1.5 ppm as determined through the use of a reliable test kit. In addition, greater chlorination will occur if the floating cartridge is located in an area of high agitation, such as when its tied with a piece of fishing line near the inlet of the pool's filtration system. Conversely, lesser chlorination may be accomplished by moving the assembly further from areas of high agitation.

Cartridge Configuration #5

INSTRUCTIONS FOR USE IN AQUA-GENI TYPE FEEDER:

Chlorination feed rate is regulated by the volume of water passing through the chemical sections and the amount of water flowing through the cartridge.
1. Slice off slot on the end of one row and 1 additional slot on the opposite side end for each 5,000 gallons of pool capacity.
2. Place the cartridge into the feeder and turn until it drops into place. Test water frequently using a reliable test kit to maintain a chlorine residual of between 1.0-1.5 ppm. If chlorine level is too high, reduce the flow by dialing a smaller number on the flow dial. If chlorine level is too low, increase the flow by dialing a larger number and/or slice off additional slots on the cartridge.

INSTRUCTIONS FOR USE IN SKIMMER BASKET:

Chlorination feed rate is determined by the number of slots cut off of the cartridge and the length of time the filter is in operation.
Start by slicing off 1 slot on the end of one row and 1 additional slot on the opposite end for each 5,000 gallons of pool capacity. Drop cartridge into skimmer.
Test water frequently using a reliable test kit to maintain a chlorine residual of between 1.0-1.5 ppm. If chlorine residual is too low, increase dosage by extending filter cycle and/or slicing additional slots off of the cartridge. If chlorine residual is too high, decrease dosage by decreasing filter cycle and/or covering up open slots with a waterproof tape.

Cartridge Configuration #6

INSTRUCTIONS FOR USE IN BLUE CHLOR TYPE FEEDER:

Continuous chlorination to the pool takes place when the pump is on.
Chlorination feed rate is determined by the height of the small pointed standpipe in the chlorinator.
With the pump on, turn the small pointed stand pipe in the chlorinator counter-clockwise until the water level is highest without unscrewing standpipe out of socket. This maximum water level provides maximum chlorination.
Using a sharp pointed instrument, perforate the dimple marked 'vent'.
Remove the child resistant cap from the bottom of the cartridge, leave the inverted cap underneath in place.
Push the cap end into the chlorinator so that the "x" cut into the inverted cap and cartridge rests on the bottom of the chamber. You are now chlorinating the pool at maximum rate.
Follow chlorinator instructions to regulate chlorine level in pool.

INSTRUCTIONS FOR USE AS A SELF CONTAINED FLOATING CHLORINATOR:

IMPORTANT: Flotation is provided by an air pocket trapped in the Bulb End of this chlorinator. If chlorinator is disturbed and air is displaced by water, the chlorinator will sink and bleaching of painted or vinyl surfaces will result. Small particles from Slow Dissolving Tablets may fall out of puncture holes. As these will bleach vinyl or paint, use of this product in vinyl or painted pools is not recommended.

Using a sharp instrument, puncture all dimples on both sides of chlorinator up to and including those indicating the volume of the pool plus 1 vent hole. Place chlorinator in pool. 24 hours later test water with a reliable test kit for free chlorine residual. If chlorine residual is below 1.0 - 1.5 ppm, punch out additional holes. If chlorine residual is above 1.5 ppm, seal off the highest set of holes with waterproof tape. Test water frequently and adjust as necessary always to maintain a free chlorine residual of 1.0 - 1.5 ppm.

To determine pool capacity see Pool Calculator below.

POOL GALLON CALCULATOR (all dimensions in feet)

Square or Rectangular: Length x Width x Average Depth x 7.5 = Gallons
Round or Oval: Length x Width x Average Depth x 5.9 = Gallons

STORAGE AND DISPOSAL

Keep product safely in 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 with large amounts of water dissolve all material before discarding. Place in trash collection or dispose in approved landfill area.

E.P.A. REG. NO. 7124-12
E.P.A. EST. NO. 7124-NJ-1

Manufactured by ALDEN LEEDS, INC.
55 Jacobus Ave., So. Kearny, NJ 07032