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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

18 JUN 1992

Martin T. Ranstead
Scientific Water Systems
P.O. Box 52886
130 Avalon Road
Lafayette, LA 70505

Subject: CHLOR MOR Chlorinated Tablets, 1"
EPA Registration No. 45387-17
CHLOR MOR Chlorinated Tablets, 3"
EPA Registration No. 45387-18
Your Amendment Dated February 6, 1992

Dear Mr. Ranstead:

This is in regard to your revised labeling resubmitted in response to the Agency letter dated October 10, 1991.

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

1. In the first paragraph under the "Swimming Pool Applications" heading, delete the reference to "pathogenic organisms."
2. For the cooling tower use, specify recirculating cooling towers.
3. Submit five copies of the finished labeling before you release the product for shipment bearing the amended labeling.

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

If you have any questions about these comments, you may call Wallace Powell at 703-305-6938.

Sincerely,



Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H-7504C)

Enclosures



CHLORINATED TABLETS, 3"

DANGER!

Keep Out of Reach of Children!

See additional precautionary information on side panel.

PRACTICAL TREATMENT (FIRST AID): *Eye/Skin Contact* - Flush with plenty of water at least 15 minutes, while removing contaminated clothing and shoes. For eye contact get immediate medical attention. If skin irritation occurs, get medical attention.

Inhalation - Remove to fresh air. If signs of irritation or discomfort occur, take immediately to a hospital or physician. *Swallowing* - If conscious, drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician. If vomiting occurs, administer additional water. If unconscious, or in convulsions, take immediately to a hospital. Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

ACTIVE INGREDIENT: Trichloro-s-triazinetrione	99 %
INERT INGREDIENTS:	1 %
AVAILABLE CHLORINE:	89 %

ACCEPTED with COMMENTS
in EPA Label (12/82)
18 JUN 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.
45387-18

DIRECTIONS FOR USE

It is a Violation of Federal Law to use this product in a manner inconsistent with its labeling.

SWIMMING POOL APPLICATIONS

CLOR MOR 3" CHLORINATING TABLETS, used as directed, are effective as bactericidal, fungicidal, and algaecidal control agents in swimming pools. This product is effective against a broad range of algal organisms ~~and pathogenic organisms~~. Dispense the tablets in a floating or stationary feeding device or in pool skimmer - ONLY IF POOL'S PLUMBING IS NON-METALLIC !

- 1.) For new pool startup, first stabilize pool water with recommended amount of cyanuric acid (following label instructions). Balance pool water to recommended ranges of total alkalinity and calcium hardness.
- 2.) INITIAL TREATMENT: Chlorinate pool with 23 ounces of Dychlor 62 per 10,000 gallons following label directions on Dychlor 62 container to obtain a chlorine residual of 1.0 to 2.0 ppm.
- 3.) Adjust and maintain pH in range of 7.2 to 7.6.
- 4.) MAINTENANCE TREATMENT: Routinely use one CLOR MOR 3" TABLET for daily chlorination. Add extra tablets if needed to maintain level of "Free" chlorine in range of 1.0 to 2.0 ppm as determined by a suitable test kit. Chlorine demand will vary with weather and degree of pool use.
- 5.) For pools containing visible algae, add one to two tablets to the skimmer for each 10,000 gallons of water.
- 6.) After superchlorinating (shocking the pool with granular chlorine) or treating for algae with elevated chlorine levels, allow Free Available Chlorine level to drop below 3.0 ppm before swimming is permitted.

RECIRCULATING COOLING TOWER APPLICATIONS

When used as directed, this product is effective as a cooling tower algaecide, slimicide, and bactericide. Severely fouled towers should be cleaned prior to treatment for best and most rapid results. Lightly fouled systems may be treated without pre-cleaning.

Chlorination requirements vary with percent of time tower is in use, type of tower, air and water temperatures, and contamination in and entering into the water. For these reasons, precise directions cannot be given. The operator will require some experience with treating the tower to establish the optimum treatment schedule and the amounts of CLOR MOR 3" TABLETS required.

APPLICATION METHODS: CLOR MOR 3" TABLETS may be applied to a tower by use of a suitable erosion chlorinator with an adjustable flow control or by suspending a dissolving basket in the sump. Chlorination levels are controlled by changing the rate of water flow through the erosion chlorinator or by increasing or decreasing the number of CLOR MOR 3" TABLETS placed in the dissolving basket. During periods when no chlorine is wanted, the water flow through the erosion chlorinator is stopped. The dissolving basket is simply removed and suspended above the water in the sump. Use a DPD free chlorine test kit to measure available chlorine concentrations in the water.

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Under the Federal Insecticide,
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45387-18

INITIAL TREATMENT: Place in the chlorinator, dissolving basket or sump, one CLOR MOR 3" TABLET for each 8,000 gallons of water in the system. Tablets should be placed in an area of continuous water flow. Open flow control on erosion chlorinator to maximum until a 1.0 ppm chlorine residual is obtained. Adjust flow or add tablets to maintain chlorine at 1 to 2 ppm until fouling is gone.

CONTINUOUS TREATMENT: Adjust flow through erosion chlorinator to maintain available chlorine reading at 0.5 to 1.0 ppm or keep the proper number of tablets in the dissolving basket or sump to maintain a 0.5 to 1.0 ppm available chlorine reading.

INTERMITTENT TREATMENT: Using an erosion chlorinator, one to three times daily, establish a 1.0 ppm available chlorine reading in the recirculating water and maintain that level of available chlorine for one hour. Optimum performance with this product will be obtained if the recirculating water pH is maintained between 7.4 and 7.8 during the treatment.

DECORATIVE FOUNTAINS, WATER BASINS, LAGOONS, AND OTHER DECORATIVE WATER SYSTEMS: Treatment as recommended is effective as a slimicide, algacide, and bactericide.

INITIAL DOSE: When system is noticeably fouled, add CLOR MOR 3" TABLETS at the rate of 0.5 to 1 pound per 1,000 gallons of water in the system (one to two tablets). Repeat until control is achieved.

SUBSEQUENT USE: When microbial control is evident, add CLOR MOR 3" TABLETS daily at the rate of 0.5 pounds (one tablet) per 1,000 gallons of water in the system. Follow by adding every three days or as needed to maintain control. Refer to and read the product label and Material Safety Data Sheet before using this product.

WASTE WATER TREATMENT

DISINFECTION OF EFFLUENTS: Disinfection by chlorination or hypochlorination does not occur instantaneously. A suitable detention basin must be provided to expose the effluent to the effects of the CLOR MOR 3" TABLETS for a sufficient period of time (usually a minimum of 15 minutes). Where mechanical stirring or other agitation is not present, chlorination for disinfection should be introduced before primary or secondary sedimentation treatments, if these are used.

The amount of CLOR MOR 3" TABLETS required will vary, depending on the concentration and condition of the final effluent. Disinfection should be controlled by frequent testing to maintain a chlorine residual of 0.6 to 1.0 ppm after 15 minutes of contact time.

In cases where sewage is to be temporarily disinfected before being diluted in a body of water, the following conditions will usually provide satisfactory protection against pollution of receiving waters: (1) Raw sewage, 10-30 ppm available chlorine. (2) Primary treated sewage, 5-20 ppm available chlorine. (3) Sewage which has undergone primary and secondary treatment, or secondary alone, 2-5 ppm. Bacteriological tests should be made frequently as a safeguard. The available chlorine level in the discharge effluent should be between 0.6 and 1.0 ppm or in accordance with a NPDES permit. For guidance, contact the regional office of the Environmental Protection Agency.

ACCEPTED
with COMMENTS
in PDA Letter Dated:

18 JUN 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
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registered under EPA Reg. No.

4-387-16

To provide and available chlorine concentration of 8 ppm will require approximately 8 ounces or one CLOR MOR 3" TABLET for each 10,000 gallons of water treated. In practice the number of CLOR MOR 3" TABLETS used should be adjusted to satisfy the chlorine demand and to maintain a proper chlorine residual. Measurement of the total available chlorine (combined plus free) in water treated with CLOR MOR 3" TABLETS is best accomplished by employing the idometric titration technique (described in Standard Methods for the Examination of Water and Wastewater, Sixteenth Edition, 1985, American Public Health Association, Inc. pp 298-303).

EPA EST. NO. 45387-LA-1

EPA REG. NO. 45387-18

ACCEPTED
with COMMENTS
In EPA Letter Dated:

18 JUN 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.

45387-18

PRECAUTIONARY STATEMENTS: READ BEFORE
USE.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Irritating to nose and throat. Wear goggles or face shield and rubber gloves when handling. Avoid breathing dust. Remove and wash contaminated clothing and shoes before use.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is identified and addressed in a 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.

PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent! Mix only with water. Use only clean, dry utensils made of metal or plastic each time material is taken from the container. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction, with generation of heat, liberations of hazardous gases, and possible generation of fire and explosion. In event of contamination or decomposition do not reseal container. If possible, isolate container in open air or well ventilated area. Flood with large volumes of water if necessary.

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 materials before discarding container. Do not reuse empty container, but rinse thoroughly before discarding in trash collection. Do not contaminate food or feed by storage or disposal, or cleaning of equipment. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Product of:
SCIENTIFIC WATER SYSTEMS, INC.

P.O. Box 52886
Lafayette, LA 70505-2886
(318) 233-2108
FAX (318) 237-8144

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with COMMENTS
by EPA Letter Dated:

18 JUN 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
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45367-18