

10324-15

05/03/2007

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY - 3 - 2007

Elizabeth Tannehill  
Regulatory Manager  
Mason Chemical Company  
721 W. Algonquin Road  
Arlington Heights, IL 60005

SUBJECT: Maquat TC76-10%  
EPA Registration Number: 10324-15  
Application Date: Sept. 11, 2006  
Receipt Date: Sept. 13, 2006

Dear Ms. Elizabeth Tannehill:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

- Submission of data to support change in Precautionary Statements
- Submission of Alternate Formulations

### Conditions

1. You have submitted data and used the "cite all" method to support the acute toxicity data requirements for this product. Based on this method of support, the following toxicity profile has been established for this product:

Data Requirement	Means of Support	Toxicity Category	Status
Acute Oral Toxicity	MRID 469338-01	III	Acceptable
Acute Dermal Toxicity	MRID 469338-02	III	Acceptable
Acute Inhalation Toxicity	Cite-all method of support		
Primary Eye Irritation	MRID 470265-01 (waiver request)	I	Waived
Primary Skin Irritation	MRID 469338-04	II	Acceptable
Dermal Sensitization	MRID 469338-05	Non-Sensitizer	Acceptable

CONCURRENCES

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2. The submitted Alternate Formulations #6, #7, #8, and #9 dated 9/11/06 are acceptable and will be added to the record for this file.

3. The submitted alternate formulations #6, #7, #8, and #9 dated 9/11/06 are acceptable and will be made part of the record for this file.

4. As per the Label Review Manual, 3<sup>rd</sup> Edition, revise the Precautionary Statements to list the route of exposure of most concern first as follows: "Corrosive. Causes *irreversible eye damage and skin irritation...*" In addition, revise this section to include: "...Wash thoroughly with soap and water after handling *and before eating, drinking, chewing gum, or using tobacco.* Remove contaminated..."

5. Revise your label to include mandatory language as per PR Notice 2000-5 as follows. Revise this statement in two instances on page 2: "During this period, *do not allow swimmers in the water.*"

6. Your label continues to include direction which indicate that the product be applied in quantities larger than the smallest container size. Thus, make the following revisions to this label:

a. Page two, item three in both Initial Applications for Swimming Pools sections, delete the reference to one gallon and state: "Add 26 ounces per 10,000 gallons of water or ratio thereof."

b. Page three in the Winterizing Treatment and Alternate Winterization Method sections, delete the references to one gallon and state: "...add 32 ounces of this product per 4,000 gallons..."

c. Page three and four in the Industrial And/Or Commercial Recirculating Cooling Water Towers, Retort Water Systems section for Intermittent or Slug as well as Modified Intermittent Methods revise such that no dosage greater than 32 ounces is indicated as follows: "When the system is noticeably fouled, apply 13.12 to 25.6 fluid ounces (20 to 40 ppm on an active quaternary basis) per 500 gallons of water..."

d. Page four in the Instructions for (Containerized) Decorative Fountains and Pools, revise the Initial Dose section, item three to indicate: "Add 32 ounces of this product to each 12,500 gallons or ratio thereof." In this same section of the label, delete the first two lines of the chart which indicate treatment of 50,000 and 25,000 gallons of water as both include application rates greater than 32 ounces.

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7. As per the comment on the "me-too" label for 10324-139 since Quaternary Test kits are not readily available, delete the following language from the Maintenance Application section for Halogen and Non-Halogen based swimming pools (pages two and three). Delete: "to maintain 0.5 ppm active. Quaternary Test Kits are available for this use."

8. Correct the following statements to include mandatory language as per PR Notice 2000-5 as follows.

a. Pages two and three, Booster Application: "The above directions *must* be followed even when the pool is not in use."

b. Page three, Industrial And/Or Commercial Recirculating Cooling Water Towers, Retort Water Systems section, Dosing Conditions revise to state: "This product *must* be applied when the system is in jeopardy of being..."

c. Page four, Instructions for Bird Baths, item two revise to state: "...Spray device *must* be a mechanical coarse spray device..."

d. Page four, Once Through Fresh and Sea Water Cooling Systems, Dosing Conditions to state: "This product *must* be applied when the system..." Also revise Intermittent or Slug Method to read: "...The minimum treatment *is* 6 to 24 hours..."

9. As per the last stamped label for this product, delete the reference on page three to the use of this product in "evaporative condensers" and "heat exchange water systems."

10. As per the RED for ADBAC dated 8/3/06, add the following language to the directions for the use of this product in Decorative Fountains and Pools: "*This product is not to be used in open waterways connected to larger watersheds or in waters that serve as natural habitats for aquatic and amphibious organisms. DO NOT use when fish or other wildlife (for example, amphibians) are present.*"

11. As per the RED for ADBAC dated 8/3/06, add the following language to the directions for the use of this product in the Once Through Fresh and Sea Water Cooling Systems section: "**DO NOT APPLY THIS PRODUCT MORE THAN 4 TIMES PER YEAR. DEACTIVATION:** This product must be deactivated prior to discharge of the NPDES outfall."

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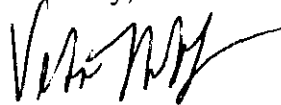
General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Enclosure: Stamped label  
DER DP D335774  
7510P:T.Lantz:4/23/07:10324-15a

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**MASON CHEMICAL COMPANY****"The Quaternary Specialists"**

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-15

E.P.A. Est. No. 10324-IL-1

**MAQUAT TC76-10%**

Net Contents:

Batch No:

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes skin irritation and irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get into eyes, on skin or on clothing. Wear protective eyewear (goggles, safety glasses or face shield), protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with soap, anionic detergents or oxidizers.

*(For Swimming Pool Use and Decorative Fountains and Pools 1 gallon or less)***STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original containers and place in locked storage area. Keep from freezing. Do not contaminate water, food, or feed by storage or disposal.

**SPILL OR LEAK PROCEDURES:** Small spills may be mopped up or flushed away with water or absorbed on some absorbent material and incinerated.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse container (bottle, cans, jars). Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

*(For Industrial Water Treatment Use, Industrial and for Commercial Recirculating Cooling Water Towers and Recirculating Cooling Water Systems.)***STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original containers and place in locked storage area. Keep from freezing.

**SPILL OR LEAK PROCEDURES:** Small spills may be mopped up or flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained, the material then moved into containers and disposed of by approved methods for hazardous wastes.

**PESTICIDE DISPOSAL:** 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.

**CONTAINER DISPOSAL:** Do not reuse empty container (bottle, cans, jars). Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incinerate or if allowed by state and local authorities, by burning. If burned stay out of smoke.

**GENERAL:** Consult Federal, State, or local disposal authorities for approval of alternative procedures such as limited open burning.

Maquat TC76-10% for Control of Algae and Algal Slime Growth in Swimming Pools, (Outside) Spas/Whirlpools/Hot Tub Baths, (Containerized) Decorative Fountains and Pools, Industrial and/or Commercial Recirculating Cooling Water Towers, Retort Water Systems. *("Outside" description and the use site "Retort Water Systems" not for use in California. "Containerized" description must be used in California.)*

**ACTIVE INGREDIENTS**

Alkyl (60%C<sub>14</sub>, 30%C<sub>16</sub>, 5%C<sub>12</sub>, 5%C<sub>18</sub>) dimethyl benzyl ammonium chloride ..... 9.96%

Dialkyl (60%C<sub>14</sub>, 30%C<sub>16</sub>, 5%C<sub>12</sub>, 5%C<sub>18</sub>) methyl benzyl ammonium chloride ..... 0.04%

**INERT INGREDIENTS:** ..... 90.00%

**TOTAL:** ..... 100.00%

Weight: Approx. 8lbs./gallon

**KEEP OUT OF REACH OF CHILDREN****DANGER**

See left panel for additional precautionary statements.

**First Aid**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Possible mucosal damage may contraindicate the use of gastric lavage.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

**MAY 3 - 2007**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-15

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This product is efficient and stable in use dilution.

This product is compatible with most chemicals used in pool water and will not damage tile, concrete, metal or plastics.

This product keeps pool water free and sparkling, clear of visible green and blue-green algae, slime and green brown colors.

This product improves filter operation and reduces need for other chemicals.

This product imparts tone and a pleasant "feel" to swimming pool water.

This product is formulated to complement swimming pool water being treated with normal chlorine systems. It is especially effective against growth of algae and being non-volatile, aids in maintaining pool water clarity and sparkle. The residual effectiveness of this algaecide tends to stabilize the total chemical treatment system.

This product is compatible with most chemicals normally used in swimming pool maintenance; however, in its concentrated form, this chemical should not come in contact with high concentrations of chlorine or any other oxidizer. **DO NOT MIX THIS PRODUCT AND CHLORINE OR ANY OTHER OXIDIZER TOGETHER** before adding to the pool. These chemicals should be handled separately.

This product was formulated to complement most swimming pool sanitizers. This product is not a stand alone product, it must be used with either halogen based or non-halogen based pool sanitizers. This product supports your overall pool chemical maintenance program, offering a residual effectiveness that protects your pool against algae formation while keeping your pool water sparkling clear. This product protects the unattended pool when you're away (refer to Vacation Treatment section in Directions For Use).

## DIRECTIONS FOR USE

### SWIMMING POOLS

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Please read entire label and use strictly in accordance with precautionary statements and directions.

This product requires no special equipment for treating swimming pool water. The correct use dilution may be added directly to the pool in any spot or added to the water circulation equipment. This product works the best when added by itself directly to pool water.

### INSTRUCTIONS FOR USE WITH HALOGEN BASED POOL SANITIZERS

This product is formulated to complement most swimming pool sanitizers. When using other products as outlined in Directions For Use on those products, always follow Directions For Use of those products. This product is effective against the growth of algae. This product is efficient and non-staining when used as directed. This product will not evaporate and its algae fighting abilities actually increase as pool water temperature increases.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturers directions. Adjust pH between 7.2-7.6. Adjust chlorine residual to 1-3 ppm. In a chlorine treated pool, add stabilizer to establish a minimum level of 40-50 ppm to reduce the degradative effects of sunlight upon the chlorine residual. Check for metals and if present add stain and scale inhibitor to prevent staining of pool surface due to metals. Check chlorine residual and adjust to 1-3 ppm.

Add this product directly into pool by pouring around entire outside perimeter of pool. Allow the filter to run for at least six (6) hours after adding algaecide. During this period, swimmers should not be allowed into the water.

**INITIAL APPLICATION FOR SWIMMING POOLS** (*Note to reviewer: The term "to waste" is not for use in California.*)

1. Backwash the filter thoroughly.
2. Vacuum algae debris (to waste) and thoroughly brush pool.
3. Add one gallon of this product to each 50,000 gallons of water (26 ounces per 10,000 gallons) or ratio thereof.
4. Vacuum pool after 24 hours to remove dead algae.
5. If algae is still visible repeat dose (steps 3 & 4) as necessary until pool is free of visible algae.
6. Once algae are under control, clean filter and return to normal operation.

### MAINTENANCE APPLICATION

Add one quart of this product in 50,000 gallons of water every 3-5 days or as needed to maintain 0.5 ppm active. Quaternary Test Kits are available for this use.

### BOOSTER APPLICATION

Add one quart of this product in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions should be followed even when the pool is not in use.

If algae growth is noticeable, apply initial dose.

### VACATION TREATMENT

When you are going to be away for one week or more add 24 ounces of this product per 10,000 gallons of water for every week unattended. Pour product around the edges of the shallow end of the pool, if shock is also being applied in the deep end of pool.

### OPTIONAL INSTRUCTIONS FOR USE WITH NON-HALOGEN BASED POOL SANITIZERS

This product is formulated to complement swimming pool water being treated with the BioGuard Softswim System, Bacquacil and other non-halogen systems. When using other products as outlined in Directions For Use for this product, always follow Directions For Use of those products. This product is efficient and non-staining when used as directed. This product will not evaporate and its algae fighting abilities actually increases as the pool water temperature increases. The residual effectiveness of this product tends to stabilize the total chemical treatment system.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturers directions. Adjust pH between 7.2-7.6. Check for metals and if present add stain and scale inhibitor to prevent staining of pool surface due to metals.

Add this product directly into pool by pouring around entire outside perimeter of pool. Allow the filter to run for at least six (6) hours after adding algaecide. During this period, swimmers should not be allowed into the water.

**INITIAL APPLICATION FOR SWIMMING POOLS** (*Note to reviewer: The term "to waste" is not for use in California.*)

1. Backwash the filter thoroughly.
2. Vacuum algae debris (to waste) and thoroughly brush pool.
3. Add one gallon of this product to each 50,000 gallons of water (26 ounces per 10,000 gallons) or ratio thereof.
4. Vacuum pool after 24 hours to remove dead algae.
5. If algae is still visible repeat dose (steps 3 & 4) as necessary until pool is free of visible algae.
6. Once algae are under control, clean filter and return to normal operation.

### MAINTENANCE APPLICATION

Add one quart of this product in 50,000 gallons of water every 3-5 days or as needed to maintain 0.5 ppm active. Quaternary Test Kits are available for this use.

### BOOSTER APPLICATION

Add one quart of this product in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions should be followed even when the pool is not in use.

If algae growth is noticeable, apply initial dose.

### VACATION TREATMENT

When you are going to be away for one week or more add 24 ounces of this product per 10,000 gallons of water for every week unattended. Pour product around the edges of the shallow end of the pool, if shock is also being applied in the deep end of pool.

### WINTERIZING TREATMENT (not applicable in California)

When swimming pool season is over, add 1 gallon of this product per 16,000 gallons (8 ounces per 1,000 gallons) (or ratio thereof) of water left in pool. This dose helps provide a measure of control of algae growth during the winter months. This treatment will also help the servicing of the pool before it is returned to use the following season.

For persistent algae or slime producing organisms add 1 quart of this product into the skimmer with the filter pump running. After one minute shut off pump and allow the system to remain off overnight. The following day, restart the filter pump and add 1 quart of this product to the pool. Run filter continuously for 24-48 hours brushing the sides and bottom of the pool frequently.

(Usage chart for one-gallon containers)

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose Booster Dose
5,000	12.8 ounces	3.2 ounces
10,000	25.6 ounces	6.4 ounces
20,000	51.2 ounces	12.8 ounces
25,000	64.0 ounces	16.0 ounces
30,000	76.8 ounces	19.2 ounces
40,000	102.4 ounces	25.6 ounces
50,000	128.0 ounces	32.0 ounces

OR

(Usage chart for one-quart containers)

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose Booster Dose
5,000	12.8 ounces	3.2 ounces
10,000	25.6 ounces	6.4 ounces

### ALTERNATE WINTERIZATION METHOD (not applicable in California)

This product may be used with the following pool chemicals to form a winterization "package".

#### Directions:

1. Add a maintenance dose of chloride or oxygen shock.
2. Top up BioGuard Softswim System, Bacquacil or other non-halogen systems to 50 ppm.
3. Add 80 ounces of this product per 10,000 gallons (32 ounces per 4,000) (or ratio thereof) of water left in pool. This dose helps provide a measure of control of algae

growth during the winter months. This treatment will also help the servicing of the pool before it is returned to use the following season.

4. Allow filter to run for several hours after chemical additions for good mixing.

**Note:** Before using chlorine or oxygen shock, read the Directions for Use and Precautionary Statements specific to that product.

### TO DETERMINE POOL CAPACITY

**Rectangular Pools:** Length (times) width (times) average depth (in feet) (times) 7.5 (equals) gallons.

**Round and Oval Pools:** Long diameter (times) short diameter (times) average depth (in feet) (times) 5.9 (equals) gallons

### DIRECTIONS FOR USE IN (OUTSIDE) SPAS/WHIRLPOOLS/HOT TUBS ("Outside" description not for use in California)

**Initial Dose:** Add 12.8 ounces of this product per 5,000 gallons of water. Initial dose is used upon filling of (outside) spa/whirlpool/hot tub bath.

**Maintenance Dose:** Add 3.2 ounces of this product per 5,000 gallons of water. Maintenance dose should be added at 3-5 day intervals. If high temperatures prevail or (outside) spa/whirlpool/hot tub bath has unusually heavy use, add maintenance dose more frequently. Drain and clean outside spa/whirlpool/hot tub bath at least once a month or as needed depending upon bather load.

## DIRECTIONS FOR USE

### INDUSTRIAL WATER TREATMENT

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

Do not use water containing residues from use of this product to irrigate crops for food or feed.

Use of the product in either public/municipal or single or multiple family private/residential potable/drinking water systems is strictly prohibited. Use of the product in any cooling water system that discharges effluent within ¼ mile of either a public/municipal or single or multiple family private/residential potable/drinking water intake is strictly prohibited.

This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, industrial and commercial cooling towers.

### INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS, RETORT WATER SYSTEMS

(Note: Retort Water Systems use site not applicable in California.)

1. **DOSING LOCATION:** This product is to be applied at a point in the system where it will be uniformly mixed, such as at the sump.
2. **DOSING CONDITIONS:** This product should be applied when the system is in jeopardy of being affected or after cleaning systems where efficiency is already impaired.
3. **METHOD OF APPLICATION:**

#### a. INTERMITTENT OR SLUG METHOD

**Initial Dose:** When the system is noticeably fouled, apply 26.25 to 51.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 6.65 to 19.25 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of water in the system twice weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**b. MODIFIED INTERMITTENT METHOD**

**Initial Dose:** When the system is noticeable fouled, apply 26.25 to 51.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of water in the system. Apply half of this initial dose when half of the water in the system has been lost by blowdown.

**Subsequent Dose:** When control of microbial growth is evident, apply 6.65 to 19.25 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of water in the system. Apply half of this subsequent dose when half 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 the system is noticeably fouled, apply 26.25 fluid ounces (20 ppm on an active quaternary basis) per 1000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment by starting a continuous feed of 6.65 fluid ounces (5 ppm on an active quaternary basis) per 1000 gallons of water lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**ONCE THROUGH FRESH AND SEA WATER COOLING SYSTEMS**

- 1. DOSING LOCATION:** This product is to be applied at a point in the system where it will be uniformly mixed, such as at the sump.
- 2. DOSING CONDITIONS:** This product should be applied when the system is in jeopardy of being affected or after cleaning systems where efficacy is already impaired.
- 3. METHOD OF APPLICATIONS:**

**a. INTERMITTENT OR SLUG METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 0.75 to 7.5 fluid ounces (0.6 to 6 ppm on an active quaternary basis) per 1,000 gallons of water based on system flow rates. The minimum treatment should be 6 to 24 hours. Repeat until control is achieved. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm clay to 1ppm product.

**Subsequent Dose:** When microbial control is evident, add 3/8 to 3.75 fluid ounces (0.3 to 3 ppm on an active quaternary basis) per 1,000 gallons of water based upon system flow rates on a as needed basis to maintain control. Frequency of feed should be tied to an in-plant monitoring program for macro cawling growth. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm clay to 1 ppm product.

**b. CONTINUOUS FEED METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 3/8 to 3.75 fluid ounces (0.3 to 3 ppm on an active quaternary basis) per 1,000 gallons of water based on system flow rates. Continue to feed until needed control is achieved. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm to 1ppm product.

**Subsequent Dose:** Maintain this treatment by starting a continuous feed of 0.15 to 1½ fluid ounces (0.1 to 1 ppm on an active quaternary basis) per 1,000 gallons

of water based upon system flow rates. Deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum ratio of 5 ppm clay to 1 ppm product.

**DIRECTIONS FOR USE**

**CONTROLLING ALGAE GROWTH**

**Bird Baths:** Do not use with fish. Clean to remove algae growth prior to filling birdbath. Then spray all exposed surfaces with a solution of 1 ounce of this product per gallon of water. Allow to air dry and brush off dead algae.

Or

**INSTRUCTIONS FOR BIRD BATHS**

This product is toxic to fish. **DO NOT** use this product when fish are present.

**Initial Dose:**

1. Drain Bird Bath.
2. Wipe, mop or spray all exposed surfaces using 1 ounce of this product per gallon of water. Spray device should be a mechanical coarse spray device. When applied with spray device, surfaces must be sprayed until thoroughly wetted. Do not rinse.
3. Allow to air dry and brush off dead algae. Repeat, if necessary, until no algae is visible.
4. Refill Bird Bath with fresh water.

**Maintenance Dose:** Repeat initial treatment when algae growth returns.

**Algae Control on Walkways:** For heavy infestations, spray or swab a solution of 1 ounce of this product per gallon of water. Let stand for an hour or more then brush and wash away dead algae. Soak area again with the solution. Do not rinse. Allow to (air) dry on the surface and repeat application when algae growth returns.

**Instructions For (Containerized) Decorative Fountains And Pools** (Note to Reviewer: "Containerized" description must be used in California.)

This product is toxic to fish. **DO NOT** use this product when fish are present.

**Initial Dose:**

1. Remove floating algae by raking, dragging with cable or chain or any other suitable method. It is more economical to remove floating type algae (if possible) before the water is treated.
2. Add this product at any point that is convenient, such as the bowl, pool, or sump.
3. Add one gallon of this product to each 50,000 gallons (32 ounces per 12,500 gallons) or ratio thereof.

**Weekly Maintenance Dose:** Add one quart of this product to each 50,000 gallons of water every 3-5 days or as to maintain 0.5 ppm active.

Each month drain and clean bowl. Refill with fresh water and repeat initial treatment. Draining removes airborne dirt, dust, contamination and alkali buildup.

Decorative Fountain or Pools Capacity in gallons of water	Initial Treatment	Maintenance Dose Booster Dose
50,000	128 ounces	32 ounces
25,000	64 ounces	16 ounces
12,500	32 ounces	8 ounces
6,250	16 ounces	4 ounces
3,125	8 ounces	2 ounces



*Note to Reviewer: All language in parenthesis is alternate language.*

1,562	4 ounces	1 ounce
781	2 ounces	½ ounce, (1 Tablespoon)
390	1 ounce	¼ ounce
195	½ ounce, (1 Tablespoon)	0.125 ounces