

10324-15

11/22/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

NOV 22 2005

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

> once through use  
but no sea water.

Subject: Maquat TC76 -10%  
EPA Registration 10324-15  
Amendment Dated: Aug 24, 2005  
EPA Received Date: Aug 25, 2005

Dear Elizabeth Tannehill

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable.

**Proposed Amendment**

- Revised Label
- Revision of wording on label
- Addition of New Directions

**General Comments**

A stamped copy of the accepted labels are enclosed for your records. Submit (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit revised labeling for review by the agency. Should you have any questions or comments concerning this letter, please contact Velma Noble at (703) 308-6233.

Sincerely,

A handwritten signature in black ink, appearing to read "Velma Noble".

Velma Noble  
Product Manager (31)  
Regulatory Management Branch1  
Antimicrobial Division (7510c)





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 bluegreen 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 algicide 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 algicide. During this period, swimmers should not be allowed into the water.

#### INITIAL APPLICATION FOR SWIMMING POOLS

1. Back wash the filter thoroughly.
2. Vacuum algae debris 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 is 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 increase 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 satin 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 algicide. During this period, swimmers should not be allowed into the water.

#### INITIAL APPLICATION FOR SWIMMING POOLS

1. Back wash the filter thoroughly.
2. Vacuum algae debris 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 is under control, clean filter and return to normal operation.

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**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.

**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 in to 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 SPAS/WHIRLPOOLS/HOT TUBS**  
**Initial Dose:** Add 12.8 ounces of this product per 5,000 gallons of water. Initial dose is used upon filling of 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 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 1/4 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 safe 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 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. 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 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 1 1/2 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.

**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 dry on the surface and repeat application when algae growth returns.

**Instructions For Contained Decorative Fountains And Pools**

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