

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 17 2003

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

SUBJECT: Maquat TC76-5%
EPA Registration Number: 10324-61
Application Dated: July 1, 2003
Receipt Date: July 2, 2003

Dear Ms. Tannehill:

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

- Reply to Agency letters of 2/20/02 and 6/5/03
- Add Additional Uses
- Update Precautionary Language

Conditions

Revise the label as follows:

A. Make the following revision to page one:

In the Storage and Disposal Statement for containers 1 gallon or less, delete the following statement from the "Pesticide Storage" subsection of the label: "Do not contaminate water, food, or feed by storage or disposal." This statement is correctly placed immediately following the "Storage and Disposal" heading.

CONCURRENCES							
SYMBOL	J. J. J.						
SURNAME	7510C						
DATE	12/16/03						

B. Make the following revisions to page two:

1. Correct the typographical errors in the "Instructions for Use with Halogen Based Pool Sanitizers" and "Optional Instructions for Use with Non-Halogen Based Pool Sanitizers" as follows: "...Check for metals and if present add *stain* and scale inhibitor to prevent..."

2. As stated previously, the Agency has made several inquires and has found that Quaternary Test kits are not readily available to the general public/people who have pools. Thus delete the following language as it appears under both "Maintenance Application" sections on page two and in the "Weekly Maintenance Dose" section on page four: "to maintain 0.5 ppm active. Quaternary Test Kits are available for this use." and "or as needed to maintain 0.5 ppm active."

3. As per the June 5, 2003 Agency correspondence, it was requested that you revise all application rates such that the dosage is indicated per one quart and one gallon. Revise the directions for "Vacation Treatment" as follows: "...add 48 ounces of this product per 10,000 gallons (*32 ounces per 6600 gallons*) of water for every week..."

C. Make the following revisions to page three:

1. You were previously advised to revise all references to the use of this product in quantities greater than one gallon. Thus revise the "Winterizing Treatment" to begin as follows: "When swimming pool season is over, add *1 gallon of this product per 8000 gallons* (16 ounces...)"

2. Since your smallest container size is one quart, revise the "Winterizing Treatment" as follows: "For persistent algae or slime producing organisms add *1 quart* of this product in to the skimmer...The following day, restart the filter pump and add *1 quart* of this product..."

3. As stated above, you were advised to revise all references to the use of this product in quantities greater than one gallon. Thus revise the "Alternate Winterization Method" to begin as follows: "Add *64 ounces of this product per 4000 gallons* (*32 ounces per 2000 gallons*) (or ratio...)"

D. Make the following revision to page four:

As stated previously, the Agency has made several inquires and has found that Quaternary Test kits are not readily available to the general public. Thus delete the following language as it appears under the "Weekly Maintenance Dose" section: " or as to maintain 0.5 ppm active."

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

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.

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 (7510C)

Enclosures: Stamped Label
7510C:T.Lantz:12/15/03:10324-61a

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

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

DANGER. Corrosive. Causes irreversible eye damage and skin burns. 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/or 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[®] TC76-5%

For Control of Algae and Algal Slime Growth in Swimming Pools, Outside Spas/Whirlpools/Hot Tub Baths, Decorative Fountains and Pools, Industrial and/or Commercial Recirculating Cooling Water Towers, Retort Water Systems.

ACTIVE INGREDIENTS

Alkyl (60%C₁₄, 30%C₁₆, 5%C₁₂, 5%C₁₈) dimethyl benzyl ammonium chloride 4.98%
Dialkyl (60%C₁₄, 30%C₁₆, 5%C₁₂, 5%C₁₈) methyl benzyl ammonium chloride 0.02%

INERT INGREDIENTS: 95.00%

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 advise. 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: Probable mucosal damage may contraindicate the use of gastric lavage.

MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road
Arlington Heights, IL 60005
847-290-1621

Toll Free:
1-800-362-1855

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 17 2003

E.P.A. Reg. No. 10324-1-1
E.P.A. Est. No. 10324-1-1
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.

NET CONTENTS

BATCH NO 10324-61

417

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 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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 17 2003

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 satin 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

1. Backwash the filter thoroughly.
2. Vacuum algae debris to waste and thoroughly brush pool.
3. Add 1 gallon of this product to each 25,000 gallons of water (1 quart per 6250 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 1 quart of this product in 25,000 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 1 quart of this product in 25,000 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 48 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 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 algaecide. During this period, swimmers should not be allowed into the water.

INITIAL APPLICATION FOR SWIMMING POOLS

1. Backwash the filter thoroughly.
2. Vacuum algae debris to waste and thoroughly brush pool.
3. Add 1 gallon of this product to each 25,000 gallons of water (32 ounces per 6,250 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 1 quart of this product in 25,000 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 1 quart of this product in 25,000 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

When swimming pool season is over, add 2 gallons of this product per 16,000 gallons (16 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 2 quarts 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 2 quarts 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
2,500	12.8 ounces	3.2 ounces
5,000	25.6 ounces	6.4 ounces
6,250	32.0 ounces	8.0 ounces
10,000	51.2 ounces	12.8 ounces
15,000	76.8 ounces	19.2 ounces
20,000	102.4 ounces	25.6 ounces
25,000	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
2,500	12.8 ounces	3.2 ounces
5,000	25.6 ounces	6.4 ounces
6,250	32.0 ounces	8.0 ounces

in EPA Letter Dated:

ALTERNATE WINTERIZATION METHOD

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 160 ounces of this product per 10,000 gallons (64 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.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-61.

Note: Before using orine 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

Initial Dose: Add 25.6 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 6.4 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

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 52.5 to 102.5 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 13.3 to 38.5 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 52.5 to 102.5 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 13.3 to 38.5 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 52.5 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 13.3 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.

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 2 ounces 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 2 ounces 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 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 1 gallon of this product to each 25,000 gallons (32 ounces per 6,250 gallons) or ratio thereof.

Weekly Maintenance Dose: Add 1 quart of this product to each 25,000 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
25,000	128 ounces	32.0 ounces
12,500	64.0 ounces	16.0 ounces
6,250	32.0 ounces	8.0 ounces
3,125	16.0 ounces	4.0 ounces
1,562	8.0 ounces	2.0 ounces
781	4.0 ounces	1.0 ounces
390	2.0 ounces	½ ounce
195	1.0 ounce	¼ ounce

OR

(Usage chart for one-quart containers)

Decorative Fountain or Pools Capacity in gallons of water	Initial Treatment	Maintenance Dose Booster Dose
195	1.0 ounce	¼ ounce
390	2.0 ounces	½ ounce
781	4.0 ounces	1.0 ounces
1,562	8.0 ounces	2.0 ounces
3,125	16.0 ounces	4.0 ounces
5,000	25.6 ounces	6.4 ounces
6,250	32.0 ounces	8.0 ounces

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 17 2003

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

10324-61

