

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



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

Subject: Maquat TC76 -16%  
EPA Registration 10324-23  
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,

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

		CONCURRENCES					
SYMBOL	7510C						
SURNAME	DALMSTAD						
DATE	11-16-05						



**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

- 1 **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
- 2 **SPILL OR LEAK PROCEDURES** Small spills may be mopped up or flushed away with water or absorbed on some absorbent material and incinerated
- 3 **PESTICIDE DISPOSAL** Securely wrap original container in several layers of newspaper and discard in trash
- 4 **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

- 1 **PESTICIDE STORAGE** Store in original containers and place in locked storage area Keep from freezing
- 2 **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 may be contained the material then moved into containers and disposed of by approved procedures for hazardous wastes
- 3 **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 Environmental Control agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance
- 4 **CONTAINER DISPOSAL** Do not reuse empty container (bottle cans jars) (equivalent) Then offer for recycling or reconditioning or puncture and dispose in sanitary landfill or incinerate or if allowed by state and local authorities do not burn burned stay out of smoke
- 5 **GENERAL** Consult Federal State or local disposal authorities for approval of alternative procedures such as limited open burning

**MAQUAT TC76-16%**

For Control of Algae and Algal Slime Growth in Swimming Pools Decorative Fountains and Pools Industrial and/or Commercial Recirculating Cooling Water Towers Retort Water Systems

**ACTIVE INGREDIENTS**

Alkyl (60 / C<sub>14</sub> 30% C<sub>18</sub> 5% C<sub>12</sub> 5% C<sub>16</sub>) dimethyl benzyl ammonium chloride 15 936.6  
Dialkyl (60 / C<sub>14</sub> 30 / C<sub>18</sub> 5% C<sub>2</sub> 5 / C<sub>16</sub>) methyl benzyl ammonium chloride 0 064 /

**INERT INGREDIENTS**

84.000 /

100 000 /

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** Probable mucosal damage may contraindicate gastric lavage

**MASON CHEMICAL COMPANY  
THE QUATERNARY SPECIALISTS**

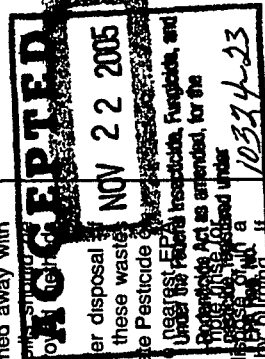
721 W Algonquin Road

Arlington Heights IL 60005

847 290 1621

Toll Free

1 800 362 1855



EPA Reg No 1033423

EPA Est No 10324 IL 1

NET CONTENTS

BATCH NO

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

### 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 quantity 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 Back wash the filter thoroughly
- 2 Vacuum algae debris and thoroughly brush pool
- 3 Add 80 fluid ounces of this product to each 50 000 gallons of water (16 ounces per 10 000 gallons) (One 2 fluid ounce packet per 1 250 gallons of pool water) 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 20 fluid ounces of this product in 50 000 gallons of water (One 2 fluid ounce packet per 5 000 gallons of pool 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 20 fluid ounces 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 15 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 algaecide 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 80 fluid ounces of this product to each 50 000 gallons of water (16 ounces per 10 000 gallons) (One 2 fluid ounce packet per 1 250 gallons of pool water) 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 20 fluid ounces of this product in 50 000 gallons of water (One 2 fluid ounce packet per 5 000 gallons of pool 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 20 fluid ounces 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 80 ounces of this product per 16 000 gallons (5 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 20 ounces 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	8.0 ounces	2.0 ounces
10,000	16.0 ounces	4.0 ounces
20,000	32.0 ounces	8.0 ounces
25,000	40.0 ounces	10.0 ounces
30,000	48.0 ounces	12.0 ounces
40,000	64.0 ounces	16.0 ounces
50,000	80.0 ounces	20.0 ounces

OR

*(Usage chart for one-quart containers)*

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose Booster Dose
5,000	8.0 ounces	2.0 ounces
10,000	16.0 ounces	4.0 ounces
20,000	32.0 ounces	8.0 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 50 ounces of this product per 10 000 gallons (20 ounces per 4 000) (or ratio thereof) of water left in pool. This dose helps provide a measure of control of algae

growth during 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 8.0 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 2.0 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 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 16 to 32 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 4 to 12 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of water in the system

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 16 to 32 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 4 to 12 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 16 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 4 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 1000 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 1 ppm 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 1000 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 clogging 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 1000 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 1 ppm product

**Subsequent Dose** Maintain this treatment by starting a continuous feed of 0.15 to 1.5 fluid ounces (0.1 to 1 ppm on an active quaternary basis) per 1000 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 0.63 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 0.63 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 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 80 ounces of this product to each 50 000 gallons (32 ounces per 20 000 gallons) or ratio thereof

**Weekly Maintenance Dose** Add 20 ounces of this product to each 50 000 gallons of water every 3 to 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	80 ounces	20 ounces
25 000	40 ounces	10 ounces
12 500	20 ounces	5 ounces
6 250	10 ounces	2 1/2 ounces
3 125	5 ounces	1 1/4 ounces
1 562	2 1/2 ounces	0 625 ounces
781	1 1/4 ounces	0 3125 ounces
390	0 625 ounces	0 15625 ounce
195	0 3125 ounces	0 078 ounces

2 0 OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL

FOR INITIAL TREATMENT

MIX EACH PACKET WITH 1 250 GALLONS OF POOL WATER

# MAQUAT TC76-16%

E P A Reg No 10324-23 E P A. Est No 10324-IL 1

NET CONTENTS 2 0 FLUID OZ

### 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	15 936 /
Dialkyl (60% C <sub>14</sub> 30% C <sub>16</sub> 5 / C <sub>2</sub> 5 / C <sub>18</sub> ) methyl benzyl ammonium chloride	0 064 /
<b>TOTAL</b>	<b>84.000 /</b>
	<b>100 000 %</b>

### INERT INGREDIENTS

84.000 /

100 000 %

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

DISPOSAL Do not reuse container Wrap and put in trash collection

**MASON CHEMICAL COMPANY**  
**THE QUATERNARY SPECIALISTS**

721 W Algonquin Road  
Arlington Heights IL 60005

847 290 1621

Toll Free

1 800 362 1855



2 0 OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL

FOR MAINTENANCE TREATMENT

MIX EACH PACKET WITH 5 000 GALLONS OF POOL WATER

# MAQUAT TC76-16%

E P A Reg No 10324 23 E P A. Est No 10324-IL 1

NET CONTENTS 2 0 FLUID OZ

### 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	15 936 /
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	0 064 /
<b>TOTAL</b>	<b>84.000 %</b>
	<b>100 000 %</b>

### INERT INGREDIENTS

84.000 %

100 000 %

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

DISPOSAL Do not reuse container Wrap and put in trash collection

**MASON CHEMICAL COMPANY**  
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