

10324-102

2-27-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



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

FEB 27 2003

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

Subject: Maquat® MQ2525M-10% S&W  
EPA Registration No. 10324-102  
Application Date: November 27, 2002  
EPA Received Date: December 3, 2002

Dear Ms. Tannehill:

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

**Proposed Amendment**

- Update First Aid, Storage and Disposal, and Precautionary Statements
- Update use directions
- Correction of CSFs for alternative formulas A-1 and A-2

**Product Chemistry**

1. The Confidential Statements of Formula for the alternate formulas "Alternate A-1" and "Alternate A-2" are acceptable to the Agency and in agreement with the label.

**General Comments**

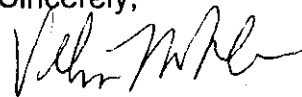
A stamped copy of the accepted labeling is enclosed. Submit one(1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at 703-308-6233.

**CONCURRENCES**

CONCURRENCES							
SYMBOL	7510C						
SURNAME	LeBaron						
DATE	2/26/03						

Sincerely,



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

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

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

**ENVIRONMENTAL HAZARDS**

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 1 gallon or less)*

**STORAGE AND DISPOSAL**

- STORAGE INSTRUCTIONS:** 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.

*(Storage and Disposal for Auxiliary Service Water and Waste Water System, 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 and 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<sup>®</sup> MQ2525M-10%S&W**

For control of Algae as well as Algal, Fungal and Bacterial Slimes in Recirculating Water Systems, Auxillary Water and Waste Water Systems and for control of Algae and Algal Slime growth in Swimming Pools, Outside Spas/Whirlpools/Hot Tub Baths.

**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.....	5.0%
Alkyl (68%C <sub>12</sub> , 32%C <sub>14</sub> )	
dimethyl ethylbenzyl ammonium chloride.....	5.0%

**INERT INGREDIENTS:**..... 90.0%

**TOTAL**..... 100.0%

Approx. Weight 8 lbs/gal.

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

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 the use of gastric lavage.

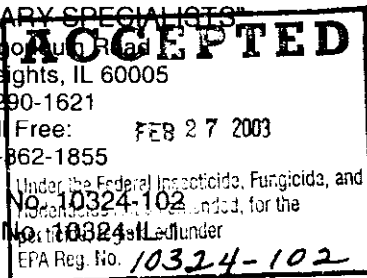
**MASON CHEMICAL COMPANY**

"THE QUATERNARY SPECIALISTS"

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847-290-1621

Toll Free: FEB 27 2003  
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E.P.A. Reg. No. 10324-102  
E.P.A. Est. No. 10324-11  
EPA Reg. No. 10324-102



NET CONTENTS

BATCH NO

### DIRECTIONS FOR USE

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.

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 AND RECIRCULATING COOLING 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 CONDITION:** 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. INTERMITTEN OR SLUG METHOD

**Initial Dose:** The dose should be poured into the sump of a system which is clean or in which growth is first noticed. Add 1-2 gallons of this product to each 5000 gallons of water contained in the system (20-40 ppm on an active quaternary basis). When heavy algae growth is present, system will have to be cleaned manually. Repeat until control is evident.

**Subsequent Dose:** Add 1-3 quarts of this product to each 5000 gallons of water contained in the system (5-15 ppm on an active quaternary basis). The dose should be poured into the sump. The above directions are to be followed once weekly or as needed. If algae growth is noticeable, apply the initial dose.

##### b. MODIFIED INTERMITTEN METHOD

**Initial Dose:** The dose should be poured into the sump of a system which is clean or in which growth is first noticed. Add 1-2 gallons of this product to each 5000 gallons of water contained in the system (20-40 ppm on an active quaternary basis). When heavy algae growth is present, system will have to be cleaned manually. Repeat until control is evident.

**Subsequent Dose:** Add 1-3 quarts of this product to each 5000 gallons of water contained in the system (5-15 ppm on an active quaternary basis). The dose should be poured into the sump. The above directions are to be followed once weekly or as needed. If algae growth is noticeable, apply the initial dose.

##### c. CONTINUOUS METHOD

**Initial Dose:** When the system is noticeably fouled, apply 1 gallon (20 ppm on an active quaternary basis) per 5000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment by starting a continuous feed of 1 quart (5 ppm on an active quaternary basis) per 5000 gallons of water lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

### BACTERIAL, FUNGAL AND ALGAE CONTROL IN RECIRCULATING AUXILIARY AND WASTE WATER SYSTEMS, AND PASTEURIZERS

**INITIAL DOSE:** Add this product at an initial dosage of 1-2 gallons per 5,000 gallons of system water (200-400ppm). Repeat until the desired level of control is achieved. Heavily contaminated systems must be pre-cleaned.

**SUBSEQUENT DOSE:** Once control is achieved, add maintenance dosages of 1-4 quarts per 5,000 gallons of system water (50-200 ppm) weekly or as needed to maintain control. Apply this product to a point in the system where it will be uniformly mixed and distributed, such as the tower sump.

### 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 best when added by itself directly to the pool water.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturer's 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:

1. Backwash the filter thoroughly.
2. Vacuum algae debris to waste and thoroughly brush pool.
3. Add 1 gallon of this product to 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 1 quart of this product of 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.

If high temperatures prevail or pool has unusually heavy use, add maintenance dose more frequently.

#### BOOSTER APPLICATION

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.

**ACCEPTED**

FEB 27 2003

Under the Federal Insecticide, Fungicide, and Herbicide Act as amended, for the pesticide, registered under EPA Reg. No. 103,24-102

### 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

When swimming pool season is over, add 1 gallon of this product to 50,000 gallons of water left in pool. This dose helps provide a measure of control of algae growth during the winter months.

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

### 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

When this product is used as directed it will prevent development of *Chlorella pyrenoidosa* (green algae), *Phormidium inundatum* (black algae), *Phormidium retzi* (blue-green algae), *Lyngba versicolor* (blue-green algae), and other swimming pool algae.

This product is compatible with many swimming pool chemicals and when used as directed it is not harmful to the metal paint, plastic or tile surfaces of the swimming pool.

This product when used as directed will help improve the appearance and cleanliness of the swimming pool water.

This product helps inhibit the growth of unsightly algae.

One gallon treats 50,000 gallons.

### OUTSIDE SPAS/WHIRLPOOLS/HOT TUB BATHS

**Initial Dose:** Add 5.1 fluid ounces of this product per 2000 gallons of pool water. Initial dose is used upon filling of spa/whirlpool/hot tub bath.

**Maintenance Dose:** Add 1.3 fluid ounces of this product per 2000 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 spa/whirlpool/hot tub bath at least once a month or as needed depending on bather load.

**ACCEPTED**

FEB 27 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10374-102