

10324-45

04/06/2012

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



Office of Pesticide Programs

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

APR -6 2012

Subject: Maquat MC 1412-50%-S
Registration #: 10324-45
Amendment Date: January 20, 2012
Received Date: January 26, 2012
Submission #: 910639

Dear Ms. Tannehill,

The following amendments, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable subject to the conditions listed below:

Conditions

Revise the section for Swimming Pool Use and Decorative Fountains and Pools in non-refillable containers up to and including 5 gallons to read as follows:

"Non refillable container. Store in original container in areas inaccessible to small children. Keep from freezing. *Offer for recycling if available* or wrap and discard in trash."

Revise the section for Swimming Pool Use and Decorative Fountains and Pools in containers over 5 gallons to read as follows:

"Pesticide Storage: Store in original container and place in locked storage area. Keep from freezing.

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

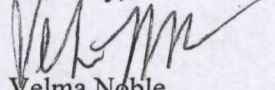
Spill or Leak Procedures: Small spills may be mopped up or flushed away with water or absorbed on some absorbent material and incinerated.

Pesticide Disposal: *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 the label instructions, contact your State Pesticide or Environmental Control agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.*

Container Handling: *Non refillable container. Do not reuse container (bottle, cans, jars.) Triple rinse (or equivalent). Offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures by state and local authorities."*

Stamped copies of the accepted labels are enclosed. Submit one (1) copy of your final printed labels before distributing or selling these products bearing the revised labeling. Should you have any questions concerning this letter, please contact Velma Noble at (703) 308-8233 or Jamil Mixon at (703) 308-8032.

Sincerely,



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

Enclosure: Stamped Label



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. 10324-45
E.P.A. Est. No. 10324-IL-1

MAQUAT[®] MC1412-50%-S

Net Contents: Batch No:

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

DANGER. Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Do not get into eyes or on clothing. Wear protective eyewear (safety glasses), clothing and protective gloves (goggles, face shield, or safety glasses). May be fatal if inhaled, swallowed, or absorbed through skin. Do not breathe (dust, vapor, or spray mist). Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

(If container is larger than 5 gallons, the following statement must appear on the label)

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish and aquatic invertebrates. 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(For containers up to and including 5 gallons, use the following environmental hazard)

ENVIRONMENTAL HAZARD

This product is toxic to fish.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix with any other chemicals.

(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)

Transportation Information

DOT Hazard Class: 8 Corrosive

DOT Proper Shipping Name: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGIII

PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

DANGER: IF YOU CANNOT READ ENGLISH, ASK YOUR SUPERVISOR TO EXPLAIN THE APPROPRIATE DIRECTIONS FOR USE BEFORE WORKING WITH THIS PRODUCT.

(Manufacturing and/or Lot no. Date:)

For Control of Algae and Algae Slime Growth in Swimming Pools and (Outdoor) Spas, Whirlpools and Hot Tubs Baths, (Containerized) Decorative Fountains.

("Containerized", "Outside" description not for use in California.)

(Product of USA) (Made in the USA)

ACTIVE INGREDIENTS

n-Alkyl (50% C₁₄, 40% C₁₂, 10% C₁₆) 50.00%
dimethyl benzyl ammonium chloride 50.00%

INERT INGREDIENTS:
TOTAL: 100.00%

Product weighs 8 lbs. per gallon

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

See left (back) (side) (right) panel (of label) (below) for additional precautionary statements and first aid 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.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

ACCEPTED with COMMENTS in EPA Letter Dated:

APR 16 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10324-45

• 50% Concentration

• Kills and prevents all type of Algae
MAQUAT® MC1412-50%-S 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.

MAQUAT® MC1412-50%-S, when used as directed, will help improve the appearance and cleanliness of the swimming pool water.

MAQUAT® MC1412-50%-S helps inhibit the growth of unsightly algae.

MAQUAT® MC1412-50%-S, when properly stored for prolonged periods of time, will not lose its effectiveness or strength.

MAQUAT® MC1412-50%-S 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 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 algacide 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 must 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 must 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 under Directions For Use).

DIRECTIONS FOR USE

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.

APPLICATION FOR SWIMMING POOLS

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 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 manufacturer's directions. Adjust pH to between 7.2-7.6. In outdoor chlorine treated pools, 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 a stain and scale inhibitor to prevent staining of pool surface due to metal. Maintain sanitizer residual in accordance with label directions found on your sanitizer of choice. This product is effective in controlling the growth of the following types of algae: *Chlorella pyrenoidosa* (green algae), *Phormidium inundatum* (blue-green algae) and *Phormidium ritzii*. When using other products as outlined in directions for this product, always follow directions on those products.

1. **Dosages** – For pools, which are, free of algae or contain algae growth.

Initial Application: For an initial application, pour directly into pool at a rate of 7.68 ounces of this product per 15,000 gallons of water (2 ppm). More rapid distribution will be achieved by pouring a portion of the specified amount into several areas of the pool until all of the required quantity has been added. Recirculation accomplished by running the filter will assure rapid dispersion of product.

Maintenance: Pour directly into pool at a rate of 6.4 ounces per 50,000 gallons of water (.5 ppm) every 3-5 days depending on weather and use factors. After each rain of consequence, add 6.4 ounces per 50,000 gallons water. Even when the pool may not be in use for periods of time, algacide additions must be made since a heavy accumulation of algae growth is difficult to remove. The appropriate amount of this product must be added by pouring a portion of the specified amount into several areas of the pool until the required quantity has been added. Recirculation accomplished by running the filter will assure rapid dispersion of product.

2. **Reentry interval:** Swimmers are allowed to re-enter the pool 15 minutes after application of the product.

3. Ensure that water quality conditions are maintained for the successful use of the product.

Booster Application

Add 6.4 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 must 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 4.75 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.

For Winterizing Pools Before Freezing (not applicable in California) Test the water and adjust to the proper levels.

After pool is no longer in use, super-chlorinate, using a recommended winter shock treatment, according to label directions. Allow pump to circulate for several hours or overnight.

Add winterizing algaecide directly to pool water, walking around the pool, so that it is evenly distributed. Use at the rate of 25.6 ounces per 50,000 gallons. Allow to circulate for a few hours.

Clean pool water line, shut down filter, drain pump, and winterize as per manufacturer's instructions. Cover with a solid cover if possible. Pools without a solid cover may need a second treatment later in the non-swimming season.

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, do not allow swimmers in 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 32 ounces of this product in 50,000 gallons of water every 3-5 days or as needed.

Booster Application

Add 32 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 must 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)

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 38.4 gallon per 15,000 (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.

(Usage chart for one-gallon containers)

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose
2,500	1.28 ounces	0.32 ounces
5,000	2.60 ounces	0.64 ounces
10,000	5.12 ounces	1.28 ounces
15,000	7.68 ounces	1.92 ounces
20,000	10.24 ounces	2.56 ounces
25,000	12.80 ounces	3.20 ounces
50,000	25.60 ounces	6.40 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

DIRECTIONS FOR USE IN OUTDOOR SPAS, WHIRLPOOLS AND HOT TUBS

 ("Outdoor" description not for use in California)

Initial Dose: Add 2.6 ozs. of this product per 5,000 gallons of water. Initial dose is used upon filling of outdoor spas, whirlpools and hot tubs.

Maintenance Dose: Add 0.64 ozs. of this product per 5,000 gallons of water. Maintenance dose must be added at 3-5 day intervals. If high temperatures prevail or outdoor spas, whirlpools and hot tubs have unusual heavy use, add maintenance dose more frequently.

Drain and clean outdoor spa, whirlpool and hot tub at least once a month or as needed depending on bather load.

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 0.2 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 0.2 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. (Not for use in CA)

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 25.6 ounces of this product to each 50,000 gallons (6.4 ounces per 12,500 gallons) or ratio thereof.
- Weekly Maintenance Dose:** Add 6.4 ounces 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	25.6 ounces	6.4 ounces
25,000	12.8 ounces	3.2 ounces
12,500	6.4 ounces	1.6 ounces
6,250	3.2 ounces	0.8 ounce
3,125	1.6 ounces	0.4 ounce
1,562	0.8 ounce	0.2 ounce
781	0.4 ounce	0.1 ounce
390	0.2 ounce	0.05 ounce
195	0.1 ounce	0.025 ounce

(Note to reviewer: The title and first statement of this section must appear on every label, followed by the appropriate Storage and Disposal section.)

STORAGE AND DISPOSAL

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

(For Swimming Pool Use and Decorative Fountains and Pools in nonrefillable containers up to and including 5 gallons)

Nonrefillable container. Store in original container in areas inaccessible to small children. Keep from freezing. Do not reuse empty container. Wrap and discard in trash (or recycle).

(For Swimming Pool Use and Decorative Fountains and Pools in containers over 5 gallons)

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.

Made in USA



[Optional - for use on residential use swimming pool and spa products.]



SECONDARY CONTAINER LABEL

(Note to Reviewer: This secondary container label will be used only when the product is diluted in accordance with the use directions.)

MAQUAT MC1412-50%-S

E.P.A. Reg. No. 10324-45 E.P.A. Est. No. 10324-IL-1

The product in this container is diluted as directed on the pesticide product label.

ACTIVE INGREDIENTS:

Alkyl (50% C₁₄, 40% C₁₂, 10% C₁₆) dimethyl benzyl ammonium chloride..... 50.0%

INERT INGREDIENTS: 50.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

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 swallowed or absorbed through the skin. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

CONTAINER HANDLING: Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

Follow the directions for use on the pesticide label when applying this product. See product label for Storage and Disposal instructions.

MASON CHEMICAL COMPANY "THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road ACCEPTED
Arlington Heights, IL 60005 with COMMENTS
in EPA Letter Dated:

847-290-1621

Toll Free:

1-800-362-1855

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