

10324-47

7/25/2012

10 of 6

JUL 25 2012

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

Subject Maquat® MC1412 16% S
EPA Registration No 10324 47
Application Dated May 31 2012
EPA Receipt Date June 4 2012

Dear Ms Tannehill

The following amendment submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) section 3 (C) (7) (A) as amended is acceptable with comment

- Response to EPA letter dated 4/24/12

Condition

- Revise the Environmental Hazards section on page 1 to be in agreement with the DDAC and ADBAC REDs by adding the following statement *This pesticide is toxic to fish and aquatic invertebrates*

General Comments

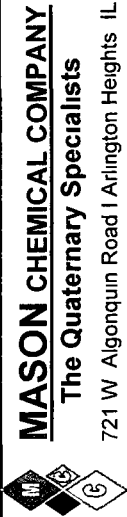
A stamped copy of the accepted labeling with conditions is enclosed Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling Should you have any questions concerning this letter please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308 6233

Sincerely,



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

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



MASON CHEMICAL COMPANY
The Quaternary Specialists

721 W Algonquin Road | Arlington Heights IL 60005 | 847 290 1621 or 800 362 1855

EPA Reg No 10324-47
EPA Est No 10324 IL 1

MAQUAT® MC1412-16%-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 Harmful if swallowed Do not get into eyes on skin or on clothing Wear protective eyewear (goggles face shield or safety glasses) rubber gloves and protective clothing when handling 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 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 Not Regulated
DOT Proper Shipping Name Not applicable

**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 (Outside) Spas/Whirlpools/Hot Tub 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)
dimethyl benzyl ammonium chloride

INERT INGREDIENTS

TOTAL

16 00%
84 00%
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 Probable mucosal damage may contraindicate the use of gastric lavage

**with COMMENTS
in EPA Letter Dated**

JUL 25 2012

Under the Federal Insecticide Fungicide, and Rodenticide Act and registered under EPA Reg. No. 10324-47

10324-47

16% Concentration

Kills and prevents all type of Algae
MAQUAT® MC1412 16% 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 16% S when used as directed will help improve the appearance and cleanliness of the swimming pool water

MAQUAT® MC1412 16% S helps inhibit the growth of unsightly algae
MAQUAT® MC1412 16% S when properly stored for prolonged periods of time will not lose its effectiveness or strength

MAQUAT® MC1412 16% 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 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 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 ~~Directions~~ under Directions For Use) in EPA Letter Dated.

DIRECTIONS FOR USE JUL 25 2012

It is a violation of Federal Law to use this product in a ~~place~~ where the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) applies. Please read entire label and use strictly in accordance with the precautionary statements and directions amended for the pesticide registered under EPA Reg No 10324-47

APPLICATION FOR SWIMMING POOLS

This product equips 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 ntzii* 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 80 ounces of this product per 50 000 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 20 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 20 ounces per 50 000 gallons water Even when the pool may not be in use for periods of time algaecide additions should be made since a heavy accumulation of algae growth is difficult to remove The appropriate amount of this product should 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 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

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

3066

Add winterizing algaecide directly to pool water walking around the pool so that it is evenly distributed Use at the rate of 80 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 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 (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 20 fluid ounces 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 20 fluid ounces of this product in 50 000 gallons of water after a heavy 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 not-reable apply 1 fluid dose

Winterization Metho (not applicable in California)

This product may be used with the following pool chemicals to registered in EPA

Directions

- 1 Add a maintenance dose of chlorine or oxygen shock
- 2 Top up RioGuard Softswim System Bacquacil or other non halogen systems to 50 ppm
- 3 Add 80 ounces of this product per 50 000 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

- 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	4 0 ounces	1 0 ounces
5 000	8 0 ounces	2 0 ounces
10 000	16 0 ounces	4 0 ounces
15 000	24 0 ounces	10 0 ounces
20 000	32 0 ounces	8 0 ounces
25 000	40 0 ounces	10 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

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 (Outside description not for use in California)

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

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

Or

INSTRUCTIONS FOR BIRD BATHS

This product is toxic to fish **DO NOT** use this product when fish are present

Initial Dose

- 1 Drain Bird Bath
- 2 Wipe mop or spray all exposed surfaces using 0.63 ounces of this product per gallon of water Spray device must be a mechanical coarse spray device When

ACCEPTED COMMENTS
in EPA letter dated 2 5 2021

Under the Federal Insecticide, Fungicide and Rodenticide Act, this product is registered for the pesticide use of Winterization Metho in California. Registered in EPA letter dated 2 5 2021

10324 47

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- applied with spray device surfaces must be sprayed until thoroughly wetted Do not rinse
- Allow to air dry and brush off dead algae Repeat if necessary until no algae is visible
 - Refill Bird Bath with fresh water

Maintenance Dose Repeat initial treatment when algae growth returns

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 (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

- 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
- Add this product at any point that is convenient such as the bowl pool or sump
- 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 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

OR

(Use chart for one quart containers)

Decorative Fountain or Pools Capacity in gallons of water	Initial Treatment	Maintenance Dose Booster Dose
195	0 3125 ounces	0 078 ounces
390	2 0 ounces	1/2 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

(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 Triple rinse container (or equivalent) after emptying Offer for recycling if available or wrap and discard in trash

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

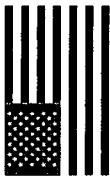
PESTICIDE STORAGE Store in original containers and place in locked storage area Keep from freezing Do not contaminate water food or feed by storage or disposal

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 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 used 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 Nonrefillable container Do not reuse container (bottle cans jars) Triple rinse (or equivalent) Offer for recycling if available or puncture and 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]



ACCEPTED
with COMMENTS
in EPA Letter Dated.

JUL 25 2012

Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide registered under EPA Reg No. 10334-47

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 MC1412-16%-S

EPA Reg No 10324-47 EPA Est No 10324 IL 1

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

ACTIVE INGREDIENTS

Alkyl (50%C ₁₄ 40%C ₁₂ 10%C ₁₆)	16.0%
dimethyl benzyl ammonium chloride	84.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

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
Arlingtor Heights IL 60005



847 290 1621

Toll Free

1 800 362 1855

**ACCEPTED
with COMMENTS
in EPA Letter Dated**

JUL 25 2012

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

(032-4-47)