

10324-875

6-28-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

JUN 28 2000

ATTENTION: Marc M. Mason

SUBJECT: Maquat MC1412-40% S&W  
EPA Registration Number 10324-87  
Your Amendment Dated: March 24, 2000  
EPA Received Date: March 31, 2000

The amendment referred to above, submitted in connection with registration under FIFRA as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

A. Revise the "Precautionary Statements" by changing "Harmful or fatal if swallowed." to read "Harmful if swallowed." Also revise as follows: "Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and rubber gloves when handling." by including "protective clothing". Delete the statement "Avoid contamination of food."

B. The heading "Directions for Use" must only appear once on your label. Delete the phrase "Directions for Use" as it appears immediately prior to the subheading "Industrial (and or Commercial) recirculating cooling water towers and retort water systems" as well as prior to the directions for "Once through water cooling systems".

C. In the section titled "Application for Swimming Pools" make the following changes:  
1. Delete the phrase "(To Clean a Pool)".  
2. Then following "1. Dosages" add the phrase "for pools which are free of algae or contain algae growth."  
3. Revise the Maintenance dose to state "...at a rate of 8 ozs. per 50,000 gallons of water (0.5 ppm) every 5-7 days..." adding (0.5 ppm).  
4. Revise the reentry interval to state: "Swimmers are allowed to re-enter the pool 15 minutes after the application of the product."

CONCURRENCES

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DATE								

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5. Revise the last line of the directions for the initial dose and the maintenance dose to read "Recirculation accomplished by running the filter will assure rapid dispersion of product."

6. Add the following statement: "This product is effective in controlling the growth of the following types of algae: Chlorella pyreoldosa (green algae), Phormidium inundatum (blue-green algae) and Phormidium ritzii."

D. Immediately following the heading "Wood Preservative Instructions" add the subheading "Sap Stain Control".

E. Delete the following statement which does not apply to an end use product: "This product is a concentrated biocide for use in the formulation of wood preservatives products." Then revise the next sentence to read "When used as directed this product will protect treated wood articles from the destructive attack of fungi, mold or mildew." deleting the phrase: "formulations produced from". These statements would be applicable for an MUP which is formulated, not an end use product.

F. Revise the directions for Double Vacuum by revising "...retention of DDAC in the treated article..." to state "...retention of ADBAC in the treated article..."

G. Revise the directions for "Storage and Disposal" of containers of one gallon or less as follows: delete the phrase "and incinerated." from the spill or leak procedures as this is not appropriate for a homeowner product. Also delete the last statement of the container disposal statement and replace with "Wrap container and put in trash."

2. Submit two ( 2 ) copies of your final printed labeling before you release the product for shipment.

3. The submitted Confidential Statement of Formula dated 3/24/00 has been found acceptable and will be made part of the record for this file.

A stamped copy of the labeling is enclosed for your records. 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)

Enclosure: Stamped Label

7510C.T.Lantz.6/28/00.1032487a

CONCURRENCES

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

**KEEP OUT OF REACH OF CHILDREN. CORROSIVE.**  
Causes irreversible eye damage and skin burns. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Harmful if inhaled. Avoid breathing vapor or spray mist. Wear protective eye wear (goggles, face shield or safety glasses) and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of food.

**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 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.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not mix with soap or anionic detergent.

**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.

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.

**DIRECTIONS FOR USE**

**Industrial (and/or commercial) recirculating cooling water towers and retort water systems.**

- 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.
- 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.
- METHOD OF APPLICATION:**

**a. INTERMITTENT OR SLUG METHOD**

Initial Dose: When the system is noticeably fouled, apply 6.4 to 12.8 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of water in the system. Repeat until control is achieved.

**MAQUAT**

**MC1412-40%-S & W.**

For Control of Algae and Algal Slime  
Growth in Swimming Pools, Industrial and/or Commercial  
Recirculating Cooling Water Towers, Molluscs in Once Through  
Water Cooling Systems, and Mold, Mildew and Fungi in Sap Stain  
and Wood Preservatives

**ACTIVE INGREDIENTS:**

Alkyl (50%C <sub>14</sub> , 40%C <sub>12</sub> , 10%C <sub>16</sub> )	.....	40.0%
dimethyl benzyl ammonium chloride.....	.....	60.0%
<b>INERT INGREDIENTS:</b> .....	.....	100.0%
<b>TOTAL:</b> .....	.....	100.0%

Product weighs 8 lbs. per gallon

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See left panel for additional  
precautionary statements

**STATEMENT OF PRACTICAL TREATMENT**

**If on skin:** Wash with plenty of soap and water. Get medical attention.  
**If in eyes:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.  
**If swallowed:** Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol.  
**If inhaled:** Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.  
**Note to Physician.** Probable mucosal damage may contraindicate these of gastric lavage.

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

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

ACCEPTED with COMMENTS  
E.P.A. Reg. No. 10324-87  
E.P.A. Est. No. 10324-IL-1

JUN 28 2000  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-87

Subsequent Dose: when microbial control is evident, add 1.6 to 4.8 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 6.4 to 12.8 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 1.6 to 4.8 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 6.4 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 1.6 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  
Once through water cooling systems**

- 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.
- 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.
- METHOD OF APPLICATIONS:**

**a. INTERMITTENT OR SLUG METHOD**

Initial Dose: When the system is noticeably fouled, apply 0.32 to 3.2 fluid ounces (1 to 10 ppm on an active quaternary basis) per 1000 gallons of water based upon 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 0.16 to 1.6 fluid ounces (.5 to 5 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 fouling 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 0.16 to 1.6 fluid ounces (0.5 to 5 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 .064 to 0.64 fluid ounces (0.2 to 2 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 to 1 ppm product.

**APPLICATION FOR SWIMMING POOLS  
(To Clean a Pool)**

Ensure all pool equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH to between 7.2-7.8. 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. When using other products as outlined in directions for this product, always follow directions on those products.

**1. Dosages**

**INITIAL APPLICATION:** For an initial application, pour directly into pool at a rate of 32 ozs. 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 will assure rapid dispersion.

**MAINTENANCE:** Pour directly into pool at a rate of 8 ozs. per 50,000 gallons of water every 5-7 days depending on weather and use factors. After each rain of consequence, add 8 ozs. per 50,000 gallons water. Even when the pool may not be in use for periods of time, algicide 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 will assure rapid dispersion.

- 2. Reentry interval: swimmers are allowed to re-enter the pool immediately after application of the product.
- 3. Ensure that water quality conditions are maintained for the successful use of the product.

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose
5,000	3.2 ozs.	0.8 ozs.
10,000	6.4 ozs.	1.6 ozs.
20,000	12.8 ozs.	3.2 ozs.
25,000	16.0 ozs.	4.0 ozs.
30,000	19.2 ozs.	4.8 ozs.
40,000	25.6 ozs.	6.4 ozs.
50,000	32.0 ozs.	8.0 ozs.

How to measure the gallon capacity of your pool:  
Measure Length (L), Width (W) and average Depth (D) in feet.

For Square or Rectangular pools: L x W x D x 7.5 = gallons

For Circular or Elliptical Pools: L x W x D x 5.9 = gallons

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 28 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10324-87

**FOR WINTERIZING POOLS BEFORE FREEZING**

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 algicide directly to pool water, walking around the pool, so that it is evenly distributed. Use at the rate of 32 ounces (6.7 ppm) per 15,000 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.

**WOOD PRESERVATIVE INSTRUCTIONS**

For the control of mold, mildew and fungus on green or freshly cut lumber.

May be used in a dip or spray application. Before use, dilute at the rate of 25 to 100 gallons of water per 1.25 gallons of this product. Seasonal variation in storage and shipping conditions, species and condition of wood should be considered in selection of end use concentrations. For effective inhibition of mold and fungus, lumber and logs must be dipped or sprayed in a manner that insures that all surfaces are uniformly treated.

For best results, green wood should be treated immediately, at least within 24 hours after cutting or sawing. Mold and fungus growth begins immediately after cutting so delayed treatment is much less effective and requires increased chemical concentration. Green, untreated lumber should not be used for stickers.

Freshly treated lumber should not be allowed to remain unprotected in heavy rains. Dip tanks and frip aprons must be roofed, paved and drained to prevent dilution and loss of the anti-stain solution.

This product is a concentrated biocide for use in the formulation of wood preservative products. When used as directed, formulations produced from this product will protect treated wood articles from the destructive attack of fungi, mold or mildew. Treatment can be done by pressure or double vacuum. Wood articles that will be protected by these treatments would include millwork, construction timbers, decking, wood applications. Dilute this product in either water or mineral spirits solution to product a 0.5% to 3.0% active solution. This formulation is to be used for both pressure and double vacuum treatment.

PERCENT ACTIVE QUAT	OZS. OF THIS PRODUCT GALLON
0.5	1.6
1.0	3.2
1.5	4.8
2.0	6.4
2.5	8.0
3.0	9.6

To find the ounces of this product per gallon for other dilutions, take the percent active desired and divide by 0.3125.

**PRESSURE TREATMENT**

Place the wood article to be treated into the pressure cylinder and seal unit. Treat the wooden articles using the pressure treatment procedures consistent with the equipment being used and standard treatment practices. Treatment conditions should be such as to produce a 0.1 to 0.6 lb./cu. foot retention in the treatment article. Such treated wood is to be used for above ground uses only.

**DOUBLE VACUUM**

Stack the wooden articles to be treated in the treatment vessel so that the preservative solution will have access to all sides of the articles. Seal the vessel. Reduce the pressure within the vessel to -10 in. for 5 minutes. Cover all the articles with preservative solution. Allow the pressure to return to atmospheric conditions and discharge the preservative solution. Reduce the pressure to -20 in. and maintain for 20 minutes. Allow the pressure to return to atmospheric and remove treated wood articles. Treatment conditions should be used as to produce a 0.1 to 0.6 lbs./cu. ft retention of DDAC in the treated article. Wood treated to this retention for above ground use only.

**PERSONAL PROTECTION EQUIPMENT FOR PRESSURE TREATMENT, DOUBLE VACUUM**

Applicators must wear gloves which are chemical-resistant (such as nitrile or butyl) in all situations where dermal contact is expected (i.e. handling freshly treated wood and manually opening cylinder doors.) Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g. cylinders that are in operation or are not free of all treatment solution) must wear

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coveralls over a long sleeved shirt and long pants, socks, chemical-resistant footwear, and protective eyewear. Federal, State and local confined space entry procedures need to be taken.

Applicators must not eat, drink or use tobacco products during those parts of the applications process that may expose them to the wood treatment formulation (e.g. manually opening/closing cylinder doors, moving trams out of cylinders, mixing chemicals, handling freshly treated wood).

Wash thoroughly after skin contact and before eating, drinking, use of tobacco products or using restrooms.

Protective clothing must be changed when it shows signs of contamination. Applicators must leave protective clothing and work shoes or boots and equipment at the plant. Worn out protective clothing and work shoes or boots must be left at the plant and disposed of in a manner approved for pesticide disposal and in accordance with State and Federal regulations.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Do not store on side. Avoid creasing or impacting of side walls. Store in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Keep from freezing.

### 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

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.

(Storage and Disposal for Swimming Pools in one gallon or less containers).

## STORAGE AND DISPOSAL

### 1. 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.

### 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). Rinse thoroughly before discarding in trash.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 28 2000

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Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
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NET CONTENTS

BATCH NO.

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