

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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DEC 12 1996

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

Attention: Marc M. Mason  
General Manager

Subject: Maquat LC12S-50%  
EPA Registration No. 10324-21.  
Your Amendment Dated September 27, 1996

The amendment (adding sap stains and wood preservatives and revised alternate CSF) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the following labeling change below before you release the product for shipment bearing the amended labeling.

a. Add the following additional instructions.

Do not use water containing residues from use of this product to irrigate crops used 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.

b. The preferred nomenclature for the active ingredient is "Alkyl" not "n-Alkyl".

c. Delete the letter "s" since only one active ingredient is declared on the label.

d. Delete the phrase: " ~~CONCURRENCES~~ed biocide "

SYMBOL								
SURNAME								
DATE								

3. The submitted Confidential Statement of Formula (Alternate) is acceptable.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). A release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Submit one (1) copy of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, contact V. Goncarovs at 703-305-6663.

Sincerely,

Marion J. Johnson, Jr.  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER

KEEP OUT OF REACH OF CHILDREN  
CORROSIVE

Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Harmful or fatal if swallowed. 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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

INITIAL APPLICATION FOR SWIMMING POOLS  
(To A Clean Pool)

25 fluid oz. Maquat LC12S-50% to each 50,000 gallons of water or ratio thereof. If algae growth is visible apply the initial dose. Vacuum pool after 24 hours to remove dead algae. If algae is still visible repeat dose as necessary until pool is free of visible algae.

CONTINUED APPLICATION

6.5 fluid oz. Maquat LC12S-50% in 50,000 gallons of water every 3-5 days or as needed to maintain 2 ppm active. Quaternary Test Kits are available for this use.

BOOSTER APPLICATION

6.5 fluid oz. Maquat LC12S-50% 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.

INDUSTRIAL AND/OR COMMERCIAL  
RECIRCULATING COOLING WATER TOWERS  
AND RECIRCULATING COOLING WATER SYSTEMS

This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water system, commercial and industrial cooling towers, influent systems such as flow through filters and lagoons, industrial water scrubbing systems and brewery pasteurizers.

INITIAL APPLICATION  
(To A Clean System)

The dose should be poured into the sump of a system which is clean or in which growth is first noticed.

5.25 to 10.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of contained water. When heavy algae growth is present, system will have to be cleaned manually.

SUBSEQUENT APPLICATION

1.33 to 3.85 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of contained water.

The above directions are to be followed twice weekly or as needed. If algae growth is noticeable, apply the initial dose.

AUXILIARY SERVICE WATER AND  
WASTE WATER SYSTEM

This product is effective for the control of odor-forming and slime-forming bacterial, fungi and algae in auxiliary service water systems such as fire protection systems and pump or screen bays, water waste material disposal, holding or recovery systems such as storage tanks, storage piles, associated piping, settling ponds or lagoons, transport spillways or canals and disposal wells.

This product may be added to the system by slug or intermittent feed or by spraying onto a waste pile. The frequency of feed or spray and the duration of treatment will depend upon the severity of the contamination. Additions to water systems should be made during the pumping operation and as close to the pump as possible to ensure adequate mixing.

INTERMITTENT OR SLUG METHOD

When this treatment is required, add this product at the rate of 5.25 to 10.25 ounces per 1000 gallons of water already in the system, or being added to the system, for 4 to 8 hours, 1 to 4 times per week or as needed to achieve the desired level of control. When control is obtained, add this product at the rate of 1.33 to 3.85 ounces per 1000 gallons of water in the system.

ONCE THROUGH FRESH WATER  
COOLING SYSTEM

1. Wear safety glasses, rubber gloves and impervious apron.
2. Add product directly from drum or add the product at a point where it will be mixed uniformly.
3. To reduce foaming, mix 2 parts of water to 1 part of product.
4. 0.15 to 1.5 fluid ounces (1-10 ppm on an active quaternary basis) per thousand gallons.
5. Do not discharge without performing proper deactivation. To perform deactivation use Bentonite Clay. The minimum ratio to be used is 5 ppm of clay to 1 ppm of product.
6. Do not use product more than 4 times per year.
7. Treatment time can not exceed 120 hours/application.
8. Avoid oxidizers and reducing agents. Product is cationic and should not be mixed with soap or anionic surfactants.

MAQUAT  
LC12S-50%

Maquat LC12S-50% for control of Algae, Algal, Fungal and Bacterial Slimes in Recirculating Water Systems, Auxiliary Water and Waste Water Systems and Water Cooling Systems and Molluscs in Once Through Freshwater Cooling Systems. **AND Mold, Mildew and Fungus in Sapstains and Woodpreservatives**

ACTIVE INGREDIENTS

n-Alkyl (67% C<sub>12</sub>, 25% C<sub>14</sub>, 7% C<sub>16</sub>, 1% C<sub>18</sub>) 50.0%

dimethyl benzyl ammonium chloride 50.0%

INERT INGREDIENTS: 100.0%

TOTAL: 100.0%

Weight Approx. 8 lb./gal.

KEEP OUT OF REACH  
OF CHILDREN  
DANGER

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing and wash before reuse.

If swallowed, drink promptly a large quantity of egg whites, gelatin solution; or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SEE LEFT PANEL.

FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Mason Chemical Company

"The Quaternary Specialists"  
721 W. ALGONQUIN ROAD  
ARLINGTON HEIGHTS, IL 60005  
708/290-1621  
TOLL FREE:  
1-800-362-1855

E.P.A. Reg. No. 10324-21  
E.P.A. Est. No. 10324-NJ-1

SAP STA

For control of mold freshly cut lumber, spray application, rate of 25-100 gall of this product, storage and shipp and condition of wood in selection of end effective inhibition lumber and logs mu in a manner that e are uniformly treate

For best results, t treated immediately, four hours after ct and fungus growth t cutting so delayed effective and requi concentration. Gi should not be used

Freshly treated ll allowed to remain rains. Dip tanks a roofed, paved an dilution and loss of

WOOD PRE

This product is come in the formulation products. When formulations product protect treated w destructive attack mildew. Treatm pressure or double that will be protect would include r timers, decking, w other articles to be applications

Dilute this product spirits solution t 3.0% active solu be used for bo vacuum treatmen

PRESSU

Place the wood an pressure cylinder wooden articles treatment proces equipment beam treatment practic should be such a lb./cu. Foot reter Such treated wood ground uses only

BEST AVAILABLE COPY

AT  
10%

Control of Algae,  
Slimes in  
Pipes, Auxiliary  
Stems and  
Molluscs in  
Cooling  
Water and  
Woodpreservatives

SAP STAIN CONTROL

For control of mold and fungus on green or freshly cut lumber. May be used in a dip or spray application. Before use, dilute at a rate of 25-100 gallons of water per gallon of this product. Seasonal variation in storage and shipping conditions, species and condition of wood should be considered in selection of end use concentration. For effective inhibition of mold and fungus, lumber and logs must be dipped or sprayed in a manner that ensures that all surfaces are uniformly treated.

For best results, green wood should be treated immediately, at least within twenty-four 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 drip aprons must be raked, paved and drained to prevent dilution and loss of the anti-stain solution.

WOOD PRESERVATIVES

This product is 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 and 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 shingles, posts and other articles to be used in above ground applications.

Dilute this product in either water or mineral spirits solution to produce a 0.5% to a 3.0% active solution. This formulation is to be used for both pressure and double vacuum treatment.

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 treated 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 inches for five 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 inches and maintain for 20 minutes. Allow the pressure to return to atmospheric and remove treated wooden articles. Treatment conditions should be used as to produce a 0.1 to 0.6 lbs./cu. Foot retention of ADBAC in the treated article. Wood treated to this retention is suitable for above-ground use only.

Applicators must wear gloves impervious to the wood treatment formulation 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 protective clothing including overalls, jacket, gloves and boots, impervious to the wood treatment formulation. 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 restroom.

Protective clothing must be changed when it shows signs of contamination. Applicators must leave protective clothing and workshoes or boots and equipment at the plant. Worn out protective clothing and workshoes 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

1. PROHIBITIONS  
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED. DO NOT REUSE EMPTY CONTAINER.

2. STORAGE INSTRUCTIONS  
STORE IN ORIGINAL CONTAINERS AND PLACE IN LOCKED STORAGE AREA. KEEP FROM FREEZING.

3. SPILL OR LEAK PROCEDURE  
SMALL SPILLS MAY BE MOPPED UP OR FLUSHED AWAY WITH WATER OR ABSORBED ON SOME ABSORBENT MATERIAL AND INCINERATED.

4. 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 THE 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.

5. CONTAINER DISPOSAL  
TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL OR OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

C-1) 50.0%  
50.0%  
100.0%

EACH

TREATMENT  
eyes or skin with  
s. For eyes, call a  
g and wash before  
nity of egg whites,  
sible, drink large  
Call a physician

indicate the use of

STATEMENTS.

Company  
pecialists\*  
NN ROAD  
IS, IL 60005  
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0324-21  
124-NJ-1

Net Contents:

ACCEPTED  
WITH COMMENTS  
to EPA Letter Draft

DEC 12 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended by the pesticide  
regulation under EPA Reg. No.  
10324-21

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