

10324-90

07/25/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 25 2012

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

Subject MAQUAT® LC12S
EPA Registration No 10324-90
Application Date April 24, 2012
EPA Received Date May 02, 2012

Dear Ms Tannehill,

The following amendments, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Section 3(c)7(a), as amended is acceptable with comments

Proposed Amendments

- Revised per EPA letter dated 4/11/12, to correct and add the appropriate Storage and Disposal language

Labeling Comments

Revise the "For Use on Refillable Containers with Commercial/Industrial Uses" as follows

Add the following statement to the section beginning "Cleaning the container before final disposal " and ending " is the responsibility of the refiller " Add *When empty return to point of sale for refilling* ' "

Add the following statements to both the Container Handling/Residue Removal Instructions for all refillable containers except fixed tank containers as well as fixed tanks Revise to begin "Refillable container *Refill this container with pesticide only Do not reuse this container for any other purpose* To clean the container "

Add the following statement to both the Container Handling/Residue Removal Instructions for all refillable containers except fixed tank containers as well as fixed tanks Revise to end as follows *Puncture or dispose of in a sanitary landfill or by other procedures approved by State and local authorities*

CONCURRENCES

SYMBOL	7510P							
SURNAME	J. F. [unclear]							
DATE	7/26/12							

Add the following statements to the Container Handling/Residue Removal Instructions for fixed tanks Revise to include “ *application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds Drain for 10 seconds after the flow begins to drip Drain rinsate into application* ”

General Comments

A stamped copy of the acceptable 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 concerning this letter, please contact Lorena Rivas at (703) 305-5027 or Velma Nobel at (703) 308-6233

Sincerely,


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

Stamped label

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

DANGER Corrosive Causes irreversible eye damage and skin burns May be fatal if inhaled Harmful if swallowed or absorbed through skin Do not breathe vapor Do not get in eyes on skins or on clothing Wear protective eyewear (goggles safety glasses or face shield) protective clothing and rubber gloves Wash thoroughly with soap and water after handling Remove contaminated clothing and wash before reuse Prolonged or frequent skin contact may cause allergic reactions in some individuals

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

ENVIRONMENTAL HAZARD

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

(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 soap anionic detergents or oxidizers
Do not use or store near heat or open flame

(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

**ACCEPTED
with COMMENTS
in EPA L 10324 90
JUL 25 2012**

Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide registered under EPA Reg No 10324 90

MAQUAT LC12S for control of Algal Fungal And Bacterial Slimes in Recirculating Water Systems Auxiliary Water and Waste Water Systems and Water Cooling Systems Molluscs in Once Through Freshwater Cooling Systems and Swimming Pools

(Product of USA) (Made in the USA)

ACTIVE INGREDIENTS

n Alkyl (67% C₁₂ 25% C₁₄ 7% C₁₆ 1% C₁₈)
dimethyl benzyl ammonium chloride

50.0%
50.0%
100.0%

Weight Approx 8lbs /gallon

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See left 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 preferable 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

DIRECTIONS FOR USE

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

SWIMMING POOLS

IMPORTANT NOTES

- Do not allow swimming in pool for at least 15 minutes after this product has been applied
 - Always apply this and other pool treatment chemicals separately never combine them
 - Sunlight rainfall temperature number of swimmers and frequency of pool use all affect the rate at which unsanitary pool water conditions develop Adjust your pool cleaning and maintenance functions accordingly
- BEFORE YOU BEGIN**
- Make sure all pool equipment is working properly including pump filter skimmer and heater Allow the filter to run for at least 6 hours after adding algaecide
 - Backwash filter following normal procedure for your pools filter
 - Check water pH (acidity/alkalinity balance) with a Test Kit following label direction Desired pH range is between 7.2-7.6 If necessary adjust pH by adding pH deacidifier to lower pH or pH increaser to raise pH
 - Recheck pH and maintain it between 7.2-7.6 for at least 6 hours before adding this product
 - Add this product directly into pool by pouring around entire perimeter of pool

INITIAL APPLICATION FOR SWIMMING POOLS

- Vacuum algae debris to waste and thoroughly brush pool
- Add 26 ounces of this product to each 50 000 gallons of water (5.2 ounces per 10 000 gallons) or ratio thereof Add this product directly into pool by pouring around entire outside perimeter of pool
- Vacuum pool after 24 hours to remove dead algae
- If algae is still visible repeat dose (steps 3 & 4) as necessary until pool is visible algae
- Once algae is under control clean filter and return to normal operation

MAINTENANCE APPLICATION

Add 6.5 ounces of this product in 50 000 gallons of water every 3-5 days Add product directly into pool by pouring around entire outside perimeter of pool

BOOSTER APPLICATION

Add 6.5 ounces of this product in 50 000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load Add this product directly into pool by pouring around entire outside perimeter of pool
If algae growth is noticeable apply initial dose

FOLLOW THE ABOVE DIRECTIONS EVEN WHEN THE POOL IS NOT IN USE

INDUSTRIAL WATER TREATMENT

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 1/4 mile of either a public/municipal or single or multiple family private/residential potable/drinking water intake is strictly prohibited

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

INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS 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 5.25 to 10.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of water in the system Repeat until control is achieved
Subsequent Dose when microbial control is evident add 1.33 to 3.85 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 5.25 to 10.25 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 1.33 to 3.85 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 5.25 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 1.33 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

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) Wear safety glasses rubber gloves and impervious apron

b) Add product directly from drum or add the product at a point where it will be mixed uniformly

c) To reduce foaming mix 2 parts of water to 1 part of this product
0.15 to 1.5 fluid ounces (1.10 ppm on an active quaternary basis) per thousand gallons

ACCEPTED FOR THE EPHRAIM WATER TREATMENT PLANT
1032490

- e) Do not discharge without performing proper deactivation To perform deactivation use Bentonite Clay The minimum ration to be used is 6 ppm of clay to 1 ppm of product
- f) Do not use product more than 4 times per year
- g) Treatment time can not exceed 120 hours/application
- h) Avoid oxidizers and reducing agents Product is cationic and should not be mixed with soap or anionic surfactants

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 systems such as storage tanks storage piles associated piping setting ponds or lagoons transport spillways or canals and disposed 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

(Note to reviewer The title and first statement of this section must appear on every label followed by the appropriate Storage and Disposal section Brackets indicate the position within the brackets MUST be used in the final label text Each option within the brackets is enclosed in a set of parenthesis () All Notes are only for reviewers and will not be added on label)

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 of 5 gallons and including 5 gallons)

Nonrefillable container Store in original container in areas inaccessible to children and pets from freezing Offer for recycling if available or wrap and discard in trash for recycling Keep from freezing

(For Swimming Pool Use and Decorative Fountains and Pools in containers of 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 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 DISPOSAL Non refillable 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

(FOR USE ON NON REFILLABLE CONTAINERS WITH COMMERCIAL/INDUSTRIAL USES)

(Note For use on containers of 5 gallons or less)

PESTICIDE STORAGE Store only in original container Keep from freezing If a leaky container must be contained within another mark the outer container to identify the contents Keep this

product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use

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/RESIDUE REMOVAL Non refillable container Do not reuse empty container Triple rinse as follows Fill container ¼ full with water and recap Shake for 10 seconds Follow Pesticide Disposal instructions for rinsate disposal Drain for 10 seconds after the flow begins to drip Repeat procedure two more times Wrap container and put in trash or offer for recycling or reconditioning If not available puncture and dispose of in a sanitary landfill

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 and the material then moved into containers and disposed of by approved methods for hazardous wastes

(FOR USE ON NON REFILLABLE CONTAINERS WITH COMMERCIAL/INDUSTRIAL USES)

(Note For use on containers greater than 5 gallons)

PESTICIDE STORAGE Open dumping is prohibited Store only in original container Keep from freezing If a leaky container must be contained within another mark the outer container to identify the contents Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use

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 (Note Only one of the following Container Disposal paragraphs will be used depending on packaging type)

Non refillable container Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate) Offer for recycling if available or puncture and dispose in a sanitary landfill or by other procedures approved by state and local authorities If rinsate cannot be used follow pesticide disposal instructions

(Note Several of our customers packaging options are sealed containers or bottles designed to reduce worker exposure to the concentrate None of these can be implemented because they are closed sealed containers The following text will be used on these non refillable sealed container types only)

Nonrefillable container Do not reuse or refill this container Wrap empty container and put in trash

RESIDUE REMOVAL INSTRUCTIONS To clean the container before final disposal empty the remaining contents from this container into (application equipment) (a mix tank) Fill the container ¼ full with water Replace and tighten closures (Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds then stand the container on its end and tip it back and forth several times Turn the container over onto its other end tip it back and forth several times) (Agitate vigorously or recirculate water for 30 seconds) En the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Follow Pesticide Disposal instructions for rinsate disposal Repeat this procedure two more times

(FOR USE ON REFILLABLE CONTAINERS WITH COMMERCIAL/INDUSTRIAL USES)

(Note For use on all refillable containers)

Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller

PESTICIDE STORAGE Open dumping is prohibited Store only in original container If a leaky container must be contained within another mark the outer container to identify the contents Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use

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.

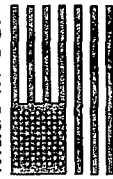
(For use on all refillable containers except fixed tank containers)

CONTAINER HANDLING/RESIDUE REMOVAL INSTRUCTIONS Refillable container. To clean the container before final disposal, empty the remaining contents from this container into [application equipment] (a mix tank). Fill the container 1/4 full with water. Replace and tighten closures. (Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds then stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times.) Agitate vigorously or recirculate water for 30 seconds. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Follow Pesticide Disposal instructions for rinsate disposal.

(Note: To be used on fixed tanks only)

CONTAINER HANDLING/RESIDUE REMOVAL INSTRUCTIONS Refillable container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Drain rinsate into application equipment and dispose of according to Pesticide Disposal instructions. Triple rinse container (or equivalent) promptly after emptying. Continue to drain for 10 seconds after the flow ends. Repeat this procedure two more times.

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. 10324-90