

JUL 11 2002

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

Subject: Maquat MC 1416-V
EPA Registration No: 10324-116
Application Date: October 12, 2001
Receipt Date: October 18, 2001

Dear Mr. Marc Mason:

The following amendment, submitted in connection with registration under section 3 (c) (7) (A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

Proposal for higher rates associated with slimicide use in pulp and paper mills and for control of bacterial, fungi/mold and algae on pulp, paperboard and wet lap.

Risk Assessment

The Agency findings are summarized below:

1. The Agency has used the FDA model for calculating residues in paper and food that result from a slimicide use in the manufacture of paper. The level of quaternary ammonium compound (quat) that could result in the daily diet from the labeled uses for this product is 0.21 µg/gm of food.

CONCURRENCES

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| SYMBOL | 7510C | | | | | | |
| SURNAME | J. Lynch | | | | | | |
| DATE | 7/11/02 | | | | | | |

2. The amount of quat from this use that would be in the daily diet, assuming a diet of 3000 grams of food, is 630 µg/person/day.

3. The dietary exposure includes both the slimicide use and a dental water line use as these exposures can be considered to reasonably occur together. As an aggregate exposure, it would be expected that the risk is only an acute event as potential exposure to ADBAC in dental water lines would not be a repeated dosing event. Total exposures from the two uses are:

- Adult male: 0.011 mg/kg
- Adult female: 0.011 mg/kg
- 10 kg child: 0.079 mg/kg

4. As a percentage of the acute Reference Dose of 0.1 mg/kg/day, these exposures represent 11% (adult male), 11% (adult female), and 79% (10 kg child) of the acute reference dose value, all of which are below 100% of the value. Our level of concern is when the reference dose of 0.1 mg/kg/day is exceeded.

5. The Agency finds no unacceptable dietary risks associated with the proposed increased use rate of Maquat MC1416-V as a slimicide. The anticipated worst case exposure does not exceed the level of concern (i.e. exposures are less than 100% of the acute and chronic RfD for all subpopulations).

Conditions

Revise the label as follows:

1. On the second page under the heading **Control of Bacterial, Fungi/Mold and Algae on Pulp, Paperboard & Wet Lap** revise to state "This product is used to inhibit *bacteria, fungi/mold and algae* growth which cause discoloration, odor and degradation in paper, paperboard or wet lap.

2. On the second page under the heading **Control of Bacterial, Fungi/Mold and Algae on Pulp, Paperboard & Wet Lap, Dosing Application** revise to state: "For inhibition of *bacteria, fungi/mold and algae* growth which causes discoloration, odor and degradation on wet lap or sheet pulp this product should be applied to the dewatered pulp surface via..."

General Comments

A stamped copy of the accepted labeling as well as copies of the associated reviews are enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

CONCURRENCES

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

DANGER, Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. Harmful if absorbed through the skin. Do not get into eyes, on skin or on clothing. Wear goggles or face shield, protective clothing, and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with soap, anionic detergents or oxidizers.
Do not use or store near heat or open flame

(If the container is greater than one gallon use the following storage and disposal statements)

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Store only 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.

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

(Plastic containers) Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Metal containers) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(If container is one gallon or less use the following storage and disposal statements)

STORAGE AND DISPOSAL

Store in original container in areas inaccessible to small children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Wrap and discard in trash (or recycle).

MAQUAT MC1416-V

Controls bacteria and algae in industrial and/or commercial recirculating cooling water towers.

Controls bacteria and fungal slimes in pulp, paper mills and paper manufacturing.

ACTIVE INGREDIENTS

Alkyi (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈) dimethyl benzyl ammonium chloride... 50.0%

INERT INGREDIENTS: 50.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

See left panel for additional precautionary 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate gastric lavage.

MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"



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Toll Free:

1-800-362-1855

E.P.A. Reg. No. 10324-116

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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL 11 2002

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

NET CONTENTS

BATCH NO

10324-116

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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.

INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS: SLUG OR INTERMITTENT FEEDING:

Initial Product Application

When growth is evident apply 2.5 to 5.0 fluid ounces (19.5 ppm to 39 ppm) of this product per 1000 gallons of contained water. This dose may be repeated until control is achieved. When heavy growth is present system should be cleaned before treatment is begun.

1. **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.
2. **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. Tower bleed off valves should be closed to permit a retention time of 4 hours.

Subsequent Application

When microbial control is evident apply 1.5 to 3.0 fluid ounces (12 ppm to 23 ppm) of this product per 1000 gallons of contained water. The above directions should be followed once per week or as needed to maintain control.

PULP AND PAPER MILLS

Slimicide Applications

This product can be used as a slimicide in the manufacture of paper and paperboard that contacts food. Depending on the type of stock, quality of raw water, complexity of the system, and degree of contamination. Apply 0.4 to 80 pounds of this product per ton (dry basis) of pulp or paper produced. If this product is used to treat whitewater, alternatively apply 0.80 to 160 pounds of this product per 100,000 gallons of whitewater to be treated (1.0 to 200 ppm product)

Dosing Application: This product is to be applied at a point in the system where it will be uniformly mixed, such as at the suction side of a pump. This product should be fed as early as possible in the system. Additions of this product should be made at a point in the system where mixing action is good. Suitable sites are the hydropulper, suction side of the machine chest or broke system pump. Badly fouled process systems must be cleaned before initial treatment.

Control of Bacterial, Fungi/Mold and Algae on Pulp, Paperboard & Wet Lap

This product is used to inhibit fungal growth, which causes discoloration, odor and degradation in paper, paperboard or wet lap

Application of this product should be made at a point in the system where mixing action is good. Application can also be made at the size press or water box. Apply at a rate of 0.4 to 80 pounds of this product per ton (dry basis) of pulp or paperboard produced.

Dosing Application: This product may be drip fed continuously from the drum, diluted and showered to the wet sheet or fed by suitable pumps.

For inhibition of wet lap or sheet pulp this product should be applied to the dewatered pulp surface via applicator rolls or showers. Application can also be made at the size press or water box.

ACCEPTED
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in EPA Letter Dated:

JUL 1 1 2002

Under the Federal Insecticide,
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