

10324-6

1-3-2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN - 3 2002

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

SUBJECT: Maquat MC1412-50%
EPA Registration Number: 10324-6
Application Dated: October 5, 2001
Receipt Date: October 15, 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:

- revise precautionary statements
- update sites
- revise technical bulletin

Conditions

Revise the label as follows:

A. Revise the "Precautionary Statements" as follows:

1. Revise such that the word "Corrosive" immediately precedes the statement beginning: "Causes irreversible eye damage..."
2. Delete the statement "Avoid contamination of food."
3. Revise to state: "Wear goggles or face shield, *protective clothing* and rubber gloves when handling."

4. Based on the acute toxicity data in the Agency files revise by adding the

CONCURRENCES

SYMBOL	7510C							
SURNAME	S. J. [Signature]							
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following statements: "May be fatal if swallowed. Harmful if inhaled. Avoid breathing vapor or spray mist." Also revise to state: "Harmful if absorbed through the skin."

B. Revise the "First Aid" statements to include the following "IF INHALED" statement: "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."

C. Revise the directions for use to begin as follows: "For use by manufacturers only for formulation into antimicrobial products for use in agricultural/farm..." Revise both statements in this section in the same manner.

D. Your label lists the site "storage rooms" associated with "dairy farms." Delete the site "storage rooms" from the label as this is an inactive site for your active ingredient.

E. Revise "indoor premises" by making this phrase more specific as follows: "indoor premises of domestic dwellings".

F. Revise your Technical Bulletin to state: "In the U.S. and Canada all products which are sold and claimed to be bacteriostatic..." deleting the phrase "used on inanimate surfaces."

General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4(a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

Velma Noble

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

Enclosures: Stamped Label
7510C:T.Lantz:10/02:10324-6

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

KEEP OUT OR REACH OF CHILDREN. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed or absorbed through skin. Avoid contamination of food. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

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 the 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 the use of gastric lavage.

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 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 AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Do not mix with oxidizers, soap or other anionic materials.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For formulation into antimicrobial products for use in agricultural/farm premises, structures, buildings, and equipment; dairy farm milk handling facilities, equipment, storage rooms, houses and sheds; food processing plant, food handling, food distribution equipment and premises; eating establishment premises and equipment; commercial, institutional, and industrial premises and equipment (floors, walls, storage areas); domestic dwellings, food handling areas, bathroom premises (hard surfaces), indoor premises; and medical institutional critical care and noncritical premises and laundry. For formulation into antimicrobial products for use in air conditioner/refrigeration condensate water systems, air washer and industrial scrubbing systems, once-through and recirculating industrial/commercial cooling water systems, pulp/paper mill water systems, and swimming pools. Gas/oil drilling muds/packer fluids, mushroom houses/empty premises equipment, wood preservation, egg handling equipment and rooms, egg washing treatment poultry processing plant equipment/ premises,

**MAQUAT
MC1412-50%**

ACTIVE INGREDIENT:

Alkyl (50% C_{14} , 40% C_{12} , 10% C_{16})
dimethyl benzyl ammonium chloride..... 50.0%

INERT INGREDIENTS:..... 50.0%

TOTAL:..... 100.0%

Weight Approx. 8 lb./gal.

**KEEP OUT OF REACH
OF CHILDREN**

DANGER

See left panel for additional precautionary
statements

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

721 W. Algonquin Road
Arlington Heights, IL 60005
847-290-1621
Toll Free
1-800-362-1855

E.P.A. Reg. No. 10324-6
E.P.A. Est. No. 10324-IL-1

meat processing plant/equipment, gas oil recovery injection water systems
Formulators using this product are responsible for providing data for the EPA registration of their formulated products.

STORAGE AND DISPOSAL

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

SPILL OR LEAK PROCEDURES: Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.

CONTAINER DISPOSAL: (Larger than 1 gal.) - 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. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

JAN - 3 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-6

NET CONTENTS

BATCH NO.

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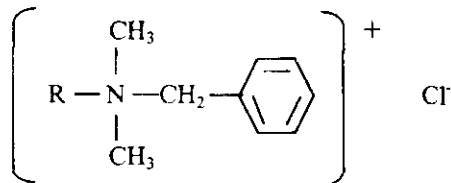
MASON

"The Quaternary Specialists"

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MAQUAT MC1412 SERIES

Information Sheet



R = 50% C₁₄, 40% C₁₂, 10% C₁₆

Chemical Description

n-Alkyl Dimethyl Benzyl Ammonium Chloride (68424-85-1)

U.S. EPA Registration Number

Maquat MC1412-50%
10324-6

Maquat MC1412-80%E
10324-14

Canadian Registration Number

Maquat MC1412-50%
22724

Maquat MC1412-80%E
21727

Applications

The Maquat MC1412 products provide a broad spectrum of bacteriological control at a economical price. Maquat MC1412 quats are used in disinfectant, deodorizer, fungicidal and sanitizer formulations for hospital, nursing homes, public institutions and industry. Maquat MC1412 products are FDA cleared for use as "indirect food additives" in sanitizing solutions for food contact surfaces, food processing equipment and eating utensils at concentrations up to 200ppm active without a potable water rinse. The Maquat MC1412 products are also effective algacides in swimming pool and industrial water treatment. Maquat quats are compatible with cationics, nonionics and amphoterics at the proper pH range as well as alkaline and acid inorganics and most mineral and organic acids.

Active Ingredients

n-Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) Dimethyl Benzyl Ammonium Chloride	50%	80%
Inert Ingredients	50%	20%
Total	100%	100%

Maquat
MC1412-50%

Maquat
MC1412-80%E

Typical Properties

Appearance @25°C	Clear liquid	Clear liquid
Specific Gravity @25°C, g/ml (lbs/U.S.gal)	0.96 (8.0)	0.93 (7.8)
pH, 10% aqueous	7.0	7.0
Color, APHA	100 max	150 max
Free amine and amine hydrochloride, %	1.0 max	1.5 max
Average Molecular Weight	358	358
Viscosity, cps @25°C	50	500
Flash Point, PMCC, °C (°F)	54 (130)	42(108)

Toxicity

Maquat MC1412 products are slightly toxic orally and cause severe skin and extreme eye irritation.

Storage & Handling

Handle Maquat products with care; use away from sparks and open flame. Use in well ventilated area. Avoid contact with eyes, nose or prolonged skin contact. Gloves, protective clothing, safety goggles and face shield should be worn when handling Maquat products. Wash thoroughly after handling material.

Standard Packaging: Maquat MC1412 products are available in bulk quantities and in plastic drums (440 lb. for Maquat MC1412-50% and 425 lb. for Maquat MC1412-80%E).

It is recommended that Maquat products be stored in sealed containers and kept in a cool dry place. If material is frozen it should be heated gently and stirred to ensure it is homogeneous before use. Maquat products are not damaged by freezing.

Bulk Storage Information: Maquat quaternaries can be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Contact between quaternaries and anionic materials, soap and sulfated oils must be avoided. At use dilution, Maquat quaternaries are non-corrosive to most plastics, natural rubber, stainless steel, monel metal, iron, brass, aluminum, lead and tin; however, Maquat quaternaries as supplied, may be corrosive to the materials listed above.

Maquat products should be stored between 85 – 120°F. An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. On fiberglass tanks an external electric heating blanket can be used. Mild agitation is recommended while storing to maintain homogeneity. Pumps, pipes and transfer lines should be 316 stainless steel. Hoses made of Teflon or cross-linked polyethylene with 316 Stainless Steel fittings are recommended for loading and unloading.

Registration

In the U.S. and Canada all products used on inanimate surfaces which are sold and claimed to be bacteriostatic, germicidal, algaecidal or to kill or inhibit organisms in any way are required to be registered either with the U.S. Environmental Protection Agency or with Health Canada. Formulators are responsible for any additional data or fees which may be required by local, state or country agencies.