

10324-51

2-24-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

FEB 24 2003

SUBJECT: Maquat MQ615 M
EPA Registration Number: 10324-51
Application Dated: November 22, 2002
Receipt Date: November 26, 2002

Dear Ms. Elizabeth Tannehill:

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 subject to the comments listed below.

- Update Disposal Statements
- Update First Aid Statements
- Update Precautionary Statements
- Additional Sites

Conditions

1. You have used the "cite-all" method to support the acute toxicity data requirements for this product. Based on this method of support, information from the Agency database is being used to determine the toxicity profile for this product.

Acute Oral	II
Acute Dermal	II
Acute Inhalation	II
Primary Eye	I
Primary Skin	I

CONCURRENCES

SYMBOL	7510C							
SURNAME	S. Jones							
DATE	2/24/03							

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Based on this profile, revise your "Precautionary Statements" exactly as follows:

"Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled, *swallowed or absorbed through the skin*. Do not get in eyes, on skin, or on clothing. Do not breath vapor or spray mist. Wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter. Wear goggles or face shield, protective clothing and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse."

Deleting the statement referring to skin sensitization.

2. Revise the "Container Disposal" statement to read as follows: "...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.*"

3. Delete the following sites from the directions for use section of the label as they are either inactive, or not supported for one or more of your active ingredients: "storage rooms," "air washer and industrial scrubbing systems," "pulp/paper mill water systems" and revise to state: "wood preservation *to finished wood products.*"

4. Make the following revisions to the technical bulletin.

A. Revise the section headed "Applications" to read: "...quats are used in disinfectant, deodorizer, fungicidal and sanitizer *end use* formulations for..."

B. Revise the section headed "Storage & Handling" to include the following: "Use in well ventilated area. *Do not get in eyes, nose, or on skin. Gloves, protective clothing, safety goggles or face shield and respirator must be worn when...*"

General Comments

A stamped copy of the accepted labeling, including technical bulletin, 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 fo 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 .

CONCURRENCES

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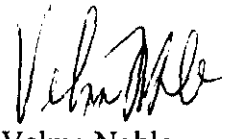
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

Enclosure: Stamped Label & Technical Bulletin
7510C:T.Lantz:2/24/03:10324-51

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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

DANGER, KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter. Wear goggles or face shield, rubber gloves and protective clothing when handling. Prolonged or frequent skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash 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 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 oxidizer, soap or other anionic materials.

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.

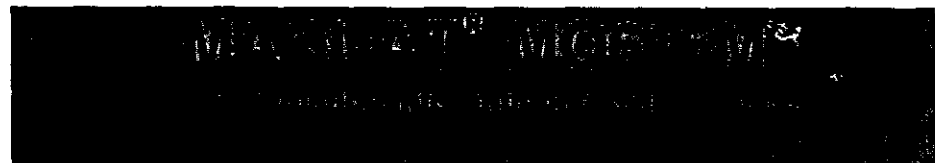
CONTAINER DISPOSAL: (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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, 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.

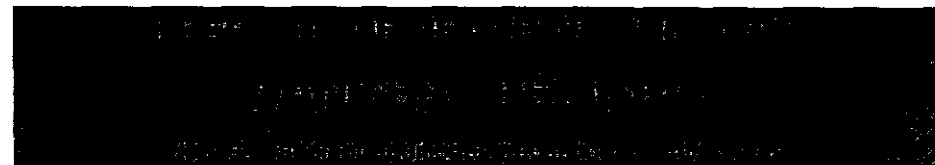


ACTIVE INGREDIENTS:

Alkyl (50%C ₁₄ , 40%C ₁₂ , 10%C ₁₆)	
dimethyl benzyl ammonium chloride	20.00%
Octyl decyl dimethyl ammonium chloride	15.00%
Dioctyl dimethyl ammonium chloride	7.50%
Didecyl dimethyl ammonium chloride	7.50%

INERT INGREDIENTS:	<u>50.00%</u>
TOTAL:	100.00%

Weight Approx. 8 lbs./gal.



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. 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, preferably 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.

MASON CHEMICAL COMPANY
"THE QUATERNARY SPECIALISTS"
741 W. Algonquin Road
Arlington Heights, IL 60005
847-290-1621 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide.
Toll Free: 1-800-362-1855
E.P.A. Reg. No. 10324-51
E.P.A. Est. No. 10324-IL-1

ACCEPTED
with COMMENTS
by EPA Letter Dated: FEB 24 2008

10324-51

NET CONTENTS

BATCH NO

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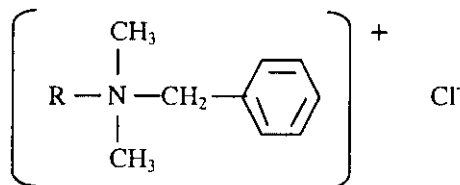


CHEMICAL COMPANY

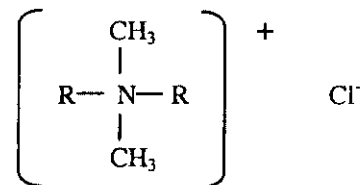
"The Quaternary Specialists"

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-51
FEB 24 2003

MAQUAT MQ 615M/MQ 624M SERIES Information Sheet



R = 50% C₁₄, 40% C₁₂, 10% C₁₆



R = 50% C₈, 50% C₁₀

Chemical Description

n-Alkyl Dimethyl Benzyl Ammonium Chloride (68424-95-3) and
Dialkyl Dimethyl Ammonium Chloride (68424-85-1)

U.S. EPA Registration Number

Maquat MQ 615M
10324-51

Maquat MQ 624M
10324-52

Canadian Registration Number

Maquat MQ 615M
25408

Maquat MQ 624M
25409

Applications

The Maquat MQ 615M/MQ 624M products are highly active, broad spectrum quaternaries which are extremely effective in hard water. Maquat MQ 615M/MQ 624M quats are used in disinfectant, deodorizer, fungicidal and sanitizer formulations for hospital, nursing homes, public institutions and industry. Maquat MQ 615M and Maquat MQ624M are FDA cleared for use as "indirect food additives" in sanitizing solutions for food contact surfaces, food processing equipment and eating utensils. Maquat quats are compatible with cationics, nonionics and amphoteric 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
Octyl Decyl Dimethyl Ammonium Chloride
Dioctyl Dimethyl Ammonium Chloride
Didecyl Dimethyl Ammonium Chloride
Inert Ingredients
Total

Maquat MQ 615M

20%
15%
7.5%
7.5%
50%
100%

Maquat MQ 624M

32%
24%
12%
12%
20%
100%

Typical Properties

Appearance @25°C
Specific Gravity @25°C, g/ml (lbs/U.S.gal)
pH, 10% aqueous
Color, APHA
Free amine and amine hydrochloride, %
Average Molecular Weight
Viscosity, cps @25°C
Flash Point, PMCC, °C (°F)

Clear liquid
0.95 (7.9)
7.5
80 max
1.5 max
342
25
37 (99)

Clear liquid
0.91 (7.6)
7.5
150 max
2.0 max
342
320
49 (120)

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Toxicity

Maquat MQ 615M and Maquat MQ 624M 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 MQ 615M and Maquat MQ 624M are available in bulk quantities and in plastic drums (440 lb. for Maquat MQ 615M and 425 lb. for Maquat MQ 624M).

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.