

10324-16

3-12-2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 12 2003

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

SUBJECT: Maquat MQ2525-80%
EPA Registration Number: 10324-16
Application Dated: November 22, 2002
Receipt Date: December 13, 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 conditions 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	J. Lach						
DATE	3/11/03						

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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 statements referring to skin sensitization and contamination of food.

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: "and equipment," "storage rooms," "air conditioner/refrigeration condensate water systems," "air washer and industrial scrubbing systems," "gas/oil drilling muds/packer fluids," "mushroom houses/empty premise equipment," "egg handling equipment and rooms," and "gas oil recovery injection water systems" and revise to state: "wood preservation to finished wood products."

4. The statement which follows the product name at the top of the right column is too broad. The Agency is moving toward revising MUP labels to list the specific sites at which a product may be formulated for use, not the pesticidal claims associated with those uses. Revise the statement: "For use by manufacturers only in formulating microbiocides, disinfectants, sanitizers & fungicides" to read as follows: "For use by manufacturers only in formulating antimicrobial products for the uses indicated on the label."

5. 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..."

C. The Agency is not in agreement with the proposes warranty statement on the technical bulletin. Revise to include the following statement: "The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of information beyond what is included in this technical bulletin." deleting the phrase: "of the information

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE, used for recording concurrence information.

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contained herein.”

6. Your Application for Pesticide indicates that this product is sold in 1 quart and 1 gallon containers. Both of these small sizes appear to be inappropriate for use by formulators.

Submit an updated Application for Pesticide which lists the correct packaging sizes for this product.

In the future, please check the information in Section III of the application to be certain that it is appropriate for the particular product.

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 .

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:3/7/03:10324-16

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

**PRECAUTIONARY STATEMENT:
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. Avoid contamination of food. 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 mix with oxidizers, soap or other anionic materials.
Do not use or store near heat or open flame.

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.

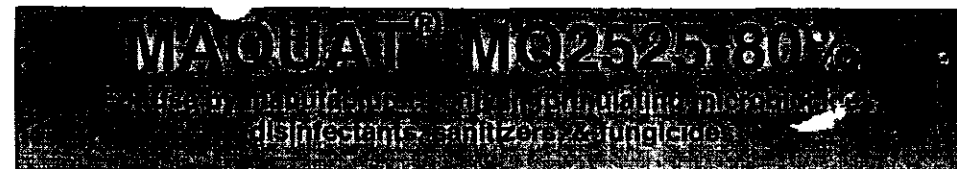
CONTAINER DISPOSAL: (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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.

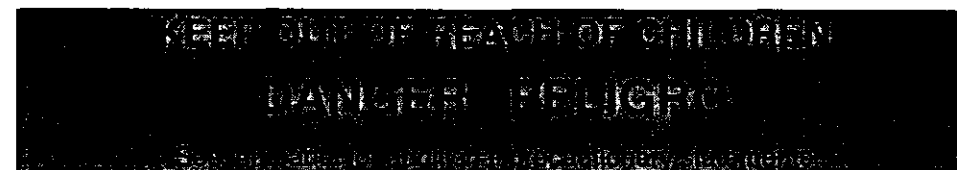


ACTIVE INGREDIENTS:

- n-Alkyl (60%C₁₄,30%C₁₆,5%C₁₂,5%C₁₈)
- dimethyl benzyl ammonium chloride..... 40.00%
- n-Alkyl (50%C₁₂,30%C₁₄,17%C₁₆,3%C₁₈)
- dimethyl ethyl benzyl ammonium chloride.....40.00%

- INERT INGREDIENTS:**20.00%
- TOTAL:** 100.00%

Weight Approx. 7.75 lb/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. 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, 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 SPECIALTIES COMMENTS
721 W. Algonquin Road
Arlington Heights, IL 60005

847-290-1621
Toll Free:

1-800-362-1853
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
E.P.A. Reg. No. 10324-1P
E.P.A. Est. No. 10324-IL-1
registered under EPA Reg. No



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BATCH NO 10324-16

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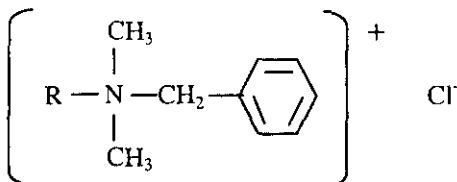


MASON CHEMICAL COMPANY

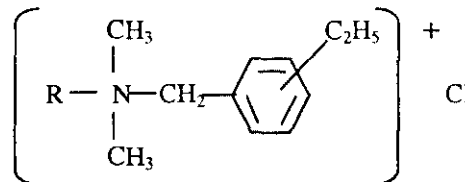
"The Quaternary Specialists"

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-16

MAQUAT® MQ2525 SERIES Information Sheet



R= 60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈



R= 50% C₁₂, 30% C₁₄, 17% C₁₆, 3% C₁₈

Chemical Description

n-Alkyl Dimethyl Benzyl Ammonium Chloride (68391-01-5) and
n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride (68956-79-6)

U.S. EPA Registration Number

Maquat® MQ2525-50%
10324-17

Maquat® MQ2525-80%
10324-16

Canadian Registration Number

Maquat® MQ2525-50%
22064

Maquat® MQ2525-80%
22072

Applications

The Maquat® MQ2525 products are a combination of two distinct quaternaries that provide a broad spectrum of bacteriological control at an economical price. Maquat® MQ2525 quats are used in disinfectant, deodorizer and sanitizer formulations for hospital, nursing homes, public institutions and industry. The Maquat® MQ2525 products are also effective algacides in swimming pool and industrial water treatment. 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 (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈)
dimethyl benzyl ammonium chloride
n-Alkyl (50% C₁₂, 30% C₁₄, 17% C₁₆, 3% C₁₈)
dimethyl ethylbenzyl ammonium chloride
Inert Ingredients
Total

	Maquat® MQ2525-50%	Maquat® MQ2525-80%
	25%	40%
	25%	40%
	50%	20%
	100%	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
Flash Point, PMCC, °C (°F)

	Maquat® MQ2525-50%	Maquat® MQ2525-80%
	Colorless to light straw in color	
	0.94 (8.0)	0.93 (7.75)
	6-8	6-8
	100 max	150 max
	1.0 max	1.5 max
	384	384
	>93°C (>200°F)	39.4 °C (103°F)

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Toxicity

Maquat[®] MQ2525 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[®] MQ2525 products are available in bulk quantities and in plastic drums (440 lb. for Maquat[®] MQ2525-50% and 425 lb. for Maquat[®] MQ2525-80%).

It is recommended that Maquat[®] products be stored in sealed containers and kept in a cool dry place. Keep from 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, algacidal 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.