

10324-126

9-17-2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510C)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

EPA Reg. Number:

10324-126

Date of Issuance:

SEP 17 2002

NOTICE OF PESTICIDE:  
  x   Registration  
       Reregistration

(under FIFRA, as amended)

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

Maquat 2420-50%

Name and Address of Registrant (include ZIP Code):

Mason Chemical Company  
721 Algonquin Road  
Arlington Heights, IL 60005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Add the phrase EPA Registration Number "EPA Reg. No. 10324-126".

Signature of Approving Official:

*Velma Noble*

Velma Noble  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Date:

SEP 17 2002

EPA Form 8570-6

CONCURRENCES

|         |         |  |  |  |  |  |
|---------|---------|--|--|--|--|--|
| SYMBOL  | 7510C   |  |  |  |  |  |
| SURNAME | J. Lark |  |  |  |  |  |
| DATE    | 9/17/02 |  |  |  |  |  |

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3. Make the following revisions to the label.

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

|                      |            |
|----------------------|------------|
| Acute Oral           | II         |
| Acute Dermal         | III        |
| Acute Inhalation     | II         |
| Primary Eye          | I          |
| Primary Skin         | I          |
| Dermal Sensitization | sensitizer |

Based on this toxicity profile, revise your "First Aid" statement to include the following:

"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 treatment advice."

Revise you "Precautionary Statements" exactly as follows:

"Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Harmful if absorbed through the skin. Do not breath vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing and rubber gloves. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse."

You may retain your "Note to Physician."

If you know of other data which can be used to support this product please resubmit and cite that data by MRID and we will re-evaluate this toxicity profile.

B. Revise your "Directions for Use" from: "...egg handling equipment and rooms, egg washing treatment and poultry processing plant..." to read "...egg handling, processing, equipment and rooms, poultry processing plant..."

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..."

CONCURRENCES

| SYMBOL  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|
| SURNAME |  |  |  |  |  |  |  |
| DATE    |  |  |  |  |  |  |  |

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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...*"

5. Submit revised Certification With Respect to Citation of Data Forms. The submitted forms do not correctly identify the general use patterns for this product. Revise to state "Indoor and Outdoor."

6. Upon completion, submit storage stability and corrosion characteristics studies to the Agency for review.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label and technical bulletin is enclosed for your records. Submit one (1) copy of the final printed label and each Certification With Respect to Citation of Data Form prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Enclosure: stamped label and stamped technical bulletin  
7510C:T.Lantz:9/16/02:10324-126

| CONCURRENCES |  |  |  |  |  |  |  |
|--------------|--|--|--|--|--|--|--|
| SYMBOL       |  |  |  |  |  |  |  |
| SURNAME      |  |  |  |  |  |  |  |
| DATE         |  |  |  |  |  |  |  |

**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  
2420 - 50%**

**ACTIVE INGREDIENTS:**

Alkyl (50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>16</sub>)  
dimethyl benzyl ammonium chloride..... 20.0%  
Didecyl dimethyl ammonium chloride..... 30.0%

**INERT INGREDIENTS:**..... 50.0%

**TOTAL:**..... 100.0%

Weight Approx. 8 lbs/gallon

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

at processing plant/equipment, gas oil recovery injection  
ater 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:**

**SEP 17 2002**

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

10324-126

NET CONTENTS

BATCH NO.

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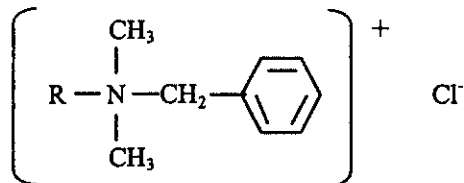
# MASON CHEMICAL COMPANY

technical information

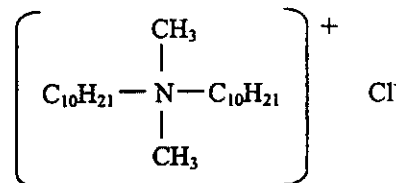


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## MAQUAT 2420 SERIES Information Sheet



R = 50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>16</sub>



### Chemical Description

n-Alkyl Dimethyl Benzyl Ammonium Chloride (68424-85-1) and Didecyl Dimethyl Ammonium Chloride (7173-51-5)

### U.S. EPA Registration Number

Maquat 2420-50%  
10324-

Maquat 2420-80%  
10324-

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 17 2002  
Under the Federal Insecticide,  
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amended, for the pesticide,  
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10324-126

### Applications

The Maquat 2420-50% and 2420-80% are highly active, broad-spectrum quaternaries, which are extremely effective in hard water. Maquat 2420-50% and 2420-80% quats are used in disinfectant, deodorizer, fungicidal and sanitizer formulations for hospital, nursing homes, public institutions and industry. Maquat 2420-50% and 2420-80% 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 amphotericics at the proper pH range as well as alkaline and acid inorganics and most mineral and organic acids.

### Active Ingredients

n-Alkyl (50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>16</sub>) Dimethyl Benzyl Ammonium Chloride  
Didecyl Dimethyl Ammonium Chloride  
Inert Ingredients  
Total

### Maquat 2420-50%

20%  
30%  
50%  
100%

### Maquat 2420-80%

32%  
48%  
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, c St @25°C  
Flash Point, PMCC, °C (°F)

Clear liquid  
0.96 (8.0)  
7.0  
200  
3.0  
360  
37.6  
51 (123)

Clear liquid  
1.92 (7.7)  
7.0  
100  
2.0  
360  
278  
39 (103)

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### Toxicity

Maquat 2420-50% and 2420-80% 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 2420-50% and 2420-80% are available in bulk quantities and in plastic drums (440 lb. for Maquat 2420-50% and 425 lb. for Maquat 2420-80%).

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, 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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 17 2002

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-126