

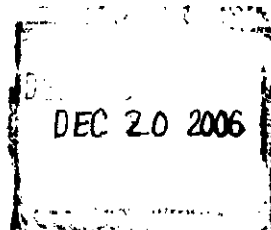
10324-31

12-30-2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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



SUBJECT: Maquat 40-50%
EPA Registration Number: 10324-31
Application Date: July 21, 2006
Receipt Date: July 31, 2006

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:

- citation of data to support change in Precautionary Statements

Conditions

1. You have submitted data and used the "cite all" method to support the acute toxicity data requirements for this product. Based on this method of support, the following toxicity profile has been established for this product:

Data Requirement	Means of Support	Toxicity Category	Status
Acute Oral Toxicity	MRID 469106-01	II	Acceptable
Acute Dermal Toxicity	MRID 469106-02	II	Acceptable
Acute Inhalation Toxicity	Cite-all method of support	II	Previously Assigned *
Primary Eye Irritation	MRID 469106-03	I	Acceptable
Primary Skin Irritation	MRID 469106-04	I	Acceptable
Dermal Sensitization	Cite-all method of support	Non-Sensitizer	Cite-all Acceptable *

* May be re-evaluated as part of the Reregistration of these active ingredients

CONCURRENCES							
SYMBOL	7510P						
SURNAME	S. Fox						
DATE	12/19/06						

2. Revise the "Precautionary Statements" to be in agreement with the submitted data as follows. Revise to include: "...*May be fatal* if swallowed or absorbed through the skin..."

3. Revise the "Directions for Use" section to indicate the following as requesting in the last stamped label for this product: "...mushroom houses/empty premises equipment, *wood preservation* to finished wood products, egg..."

4. As per the last stamped label for this product, revise the statement immediately following the product name to read exactly 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 first page to state: "...Maquat 40-50 provides the added security measure of *EPA* clearance under 40 CFR section 180.940..."

B. Revise the second page as per the last stamped label for this product by including the following under "Handling Information": "...*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 has not approved biodegradability claims for this product. Delete all references to "Biodegradability" from the Technical Bulletin.

D. Delete the following statements from the "Toxicity" section as they are not in agreement with the submitted data for this product: "Maquat 40-50 Oral Toxicity 0.418 g/kg. Dermal Toxicity 1.0 g/kg"

E. Delete the following warranty statements. You may not claim that you can not guarantee the accuracy of the technical bulletin. Delete: "The manufacturer makes not warranties, expressed or implied, as to the accuracy, completeness, or adequacy....The manufacturer shall not be liable...in connection with the accuracy, completeness, adequacy or furnishing of such information." It is suggested that you correspond with the Agency on warranty statements to develop an acceptable statement.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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

Enclosure: Stamped label
DER DP D332105
7510P:T.Lantz:12/18/06:10324-31a

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-31

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

MAQUAT® 40-50%

For Formulation into Antimicrobial Products

Net Contents:

Batch No:

**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 incineration or if allowed by state and local authorities by burning. If burned stay out of smoke

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; dairies; 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, once-through and recirculating industrial/commercial cooling water systems, and swimming pools. Gas/oil drilling muds/packer fluids, mushroom houses/empty premises equipment, finished wood products, 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:

Octyl decyl dimethyl ammonium chloride	25.00%
Dioctyl dimethyl ammonium chloride	12.50%
Didecyl dimethyl ammonium chloride	12.50%

INERT INGREDIENTS: 50.00%

TOTAL: 100.00%

Weight Approx. 7.75 lbs./gal.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

**See left (back) (side) (right) panel (of label) (below) 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 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.

ACCEPTED
WITH COMMENTS
EPA Office of Pesticide
DEC 20 2006

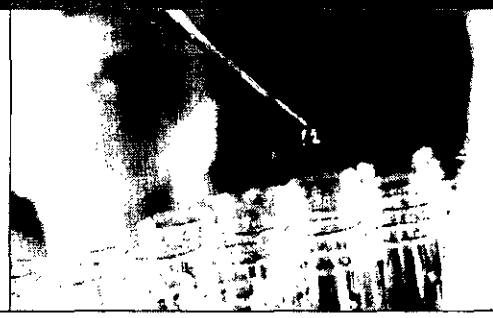
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-31

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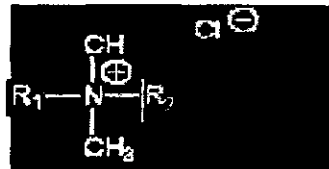


MASON CHEMICAL COMPANY

technical information



Data Sheet – Maquat® 40-50



High Efficacy Dialkyl Quaternary Ammonium Compound

Overview

The biocidal efficacy of quaternary ammonium compounds (QACs) has been known since the early 1900s, with alkyl dimethyl ammonium chlorides (ADBAC - Maquat MC1412 type) developing into commercial use in the mid 1930s. QACs have evolved through a series of generations with the "dialkyls" being recognized as the most efficacious. Dialkyl quats, and specifically the octyl decyl dimethyl ammonium chlorides as characterized by Maquat 40-50 is uniquely defined by its outstanding germicidal performance, unusual tolerance for anionic surfactants, protein loads and hard water. To date, Maquat 40-50 represents the highest efficacy quat, with the broadest use and most comprehensive efficacy claims base of any QAC active ingredient accepted by US EPA and International Regulatory Authorities.

The octyl decyl QAC in Maquat 40-50 was designed and optimized for efficacy in "real world" conditions, where mixed fungal, bacterial and viral pathogens survive and adapt in unique, often complex environments. Under controlled laboratory conditions, Maquat 40-50 exhibits high efficacy with high soil and hard water tolerance that best translates into real world performance where conditions that breed microbial pathogens are seldom under control.

Maquat 40-50 is EPA Registered for use as an active ingredient in disinfectant, sanitizer formulations used in Hospitals, Institutions and Industry. When used as a Food Contact sanitizer, Maquat 40-50 provides the added security measure of FDA clearance under in 40 CFR §180.940 for use as a Food Contact Sanitizer up to 400 ppm active without a rinse in food processing plants and 200 ppm in public eating-places and dairy processing plants.

Unique to Mason Chemical is the source tertiary amine used in the manufacture of Maquat 40-50. The high purity of the starting material delivers a consistent, low color and odor, high performance product that can be differentiated into consistent, high value end-use products.

We maintain a staff of experts to provide assistance to our customers in formulating, registering and developing products for the disinfectant/sanitizer market. Marketing aids and information are made available and constant development of new markets and ideas are additional values received from your association with Mason Chemical Company. Inquires on these data are sincerely appreciated.

Composition	Maquat 40-50
Octyl decyl dimethyl ammonium chloride	25.0%
Diocetyl dimethyl ammonium chloride	12.5%
Didecyl dimethyl ammonium chloride	12.5%
Inert ingredients	50.0%

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MASON CHEMICAL COMPANY

technical information

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Data Sheet -
Maquat 40-50

Typical Properties

Physical form	Clear liquid
Active quaternary (m.w. 327)	50%
Free Amine & Amine HCl	1.5%
Color (APHA)	150
pH, 10% aqueous	7.0
Viscosity @25°C	100cps
Specific Gravity @25°C	0.9283
Flash point (PMCC)	>199°F(93°C)
EPA Registration Number	10324-31

Handling Information

Refer to and follow the guidelines in the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product. 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 40-50 is available in bulk quantities and in 425 lb. plastic drum.

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.

Biodegradability

Maquat Quaternaries are biodegradable. A detailed biodegradability statement is available upon request.

Toxicity

~~Maquat 40-50 Oral Toxicity 0.44 g/kg, Dermal Toxicity 1.0 g/kg~~
Severe Skin and Eye Irritant. Not a Sensitizer.

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.