

10324-35

6-11-2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

JUN 11 2002

Subject: Amendment per FIFRA
Maquat 4480-E
EPA Registration No. 10324-35
Application Dated: March 11, 2002
EPA Received Date: March 13, 2002

Dear Mr. Marc Mason:

The following amendment, submitted in connection with registration under 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the comments listed below.

Proposed Amendment

- Update Precautionary Statements
- Update Use Sites

Label Comments

- Revise the Precautionary Statements to read: **"DANGER, Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Do not breathe vapor or spray mist. Wear a dust/mist filtering respirator (MHSA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse."**
- Revise the First Aid Statements to include: **"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."**

CONCURRENCES

SYMBOL	7510c						
SURNAME	Gray						
DATE	6-7-02						

General Comments

A stamped copy of the label is enclosed for your records. Please submit one(1) copy of the final printed label before releasing this product for shipment. Should you have any questions regarding this letter, please contact me at 703-308-6233.

Sincerely,



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

**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
4480-E**

ACTIVE INGREDIENT:

Didecyl dimethyl ammonium chloride..... 80.0%

INERT INGREDIENTS:..... 20.0%

TOTAL:..... 100.0%

Weight Approx. 7.7 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. 10324-35

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:

JUN 11 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-35

NET CONTENTS

BATCH NO.

3/6



MASON CHEMICAL COMPANY

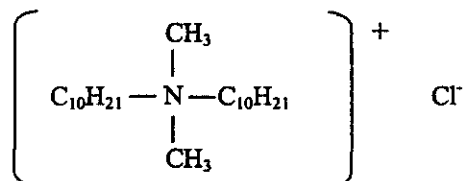
technical information

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MAQUAT 4450E/4480E

Information Sheet



ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 11 2002

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

10324-35

Chemical Description

Didecyl Dimethyl Ammonium Chloride (7173-51-5)

U.S. EPA Registration Number

Maquat 4450E
10324-34

Maquat 4480E
10324-35

Canadian Registration Number

Maquat 4450E
24812

Maquat 4480E
24805

Applications

Maquat 4450E and 4480E are water soluble dialkyl quats that can be used in disinfectant, sanitizer and fungicidal products for hard surfaces in nursing homes, hospitals and public institutions. Both Maquat 4450E and Maquat 4480E are registered in the United States and Canada as a preservative for the wood and sapstain markets. Maquat 4450E and Maquat 4480E are symmetrical quats exhibiting high fungicidal activity in addition to excellent hard water tolerance. Maquat 4450E and Maquat 4480E provide excellent sanitization in very hard water. They are also used as effective algacides in swimming pool and industrial water treatment applications. Maquat quats are compatible with cationics, nonionics and amphotericals at the proper pH range as well as alkaline and acid inorganics and most mineral and organic acids.

Active Ingredients

Didecyl Dimethyl Ammonium Chloride
Inert Ingredients
Total

	Maquat 4450E	Maquat 4480E
Didecyl Dimethyl Ammonium Chloride	50%	80%
Inert Ingredients	50%	20%
Total	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
Viscosity, cps @25°C
Flash Point, PMCC, °C (°F)

	Maquat 4450E	Maquat 4480E
Appearance @25°C	Clear liquid	Clear liquid
Specific Gravity @25°C, g/ml (lbs/U.S.gal)	0.91 (7.6)	0.89 (7.5)
pH, 10% aqueous	7.0	7.0
Color, APHA	250 max	300max
Free amine and amine hydrochloride, %	1.5 max	2.4 max
Average Molecular Weight	361	361
Viscosity, cps @25°C	20	210
Flash Point, PMCC, °C (°F)	54 (130)	43(109)

Toxicity

Maquat 4450E and Maquat 4480E 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 4450E and Maquat 4480E are available in bulk quantities and in plastic drums (440 lb. for Maquat 4450E and 425 lb. for Maquat 4480E).

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.