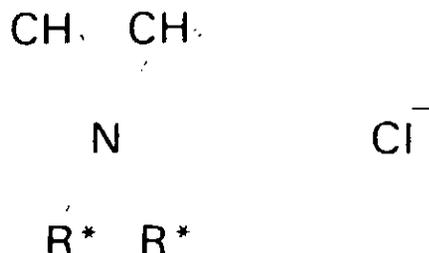


"The Quaternary Specialists"

TECHNICAL BULLETIN

MAQUAT 4450-E EPA Registration Number 10324-34
 MAQUAT 4480-E EPA Registration Number 10324-35

+



Where R* is N-decyl
 Didecyl dimethyl ammonium chloride

- | | | |
|---|--------|--------|
| I. Statement of Ingredients: | 50% | 80% |
| Active Ingredients: | | |
| Didecyl dimethyl ammonium chloride | 50% | 80% |
| Inert Ingredients: | 50% | 20% |
| Total: | 100% | 100% |
| II. Chemical and Physical Properties: | 50% | 80% |
| A. Appearance: A clear to light straw in color - liquid. | | |
| B. pH (10% solution in distilled water): 6.0-8.0 | | |
| C. Color (APHA) | 250max | 325max |
| D. Average Molecular Weight: 361 | | |
| E. Solubility: Freely soluble in water, lower alcohols, ketones and glycols | | |
| F. Compatibility: Maquat 4450-E and 4480-E is cationic and therefore is incompatible with soap and anionic surfactants. It is compatible with nonionics and other cationics. | | |
| G. Corrosion: At use dilution - is non corrosive to most plastics, natural rubber and monel metal. Corrosive to iron, bronze, brass, aluminum, lead, tin and copper. | | |
| III. Instructions for formulations: | | |
| It is a violation of federal law to use this product in a manner inconsistent with the labeling. Formulators using this product are responsible for EPA and State registrations for their formulated products. All products in which a claim is made of a germicidal, algacidal, bactericidal nature are required to be registered with the Environmental Protection Agency in Washington, D.C. | | |
| IV. Germicidal data available on request. | | |
| V. MSDS and toxicity studies on request. | | |

NON-WARRANTY STATEMENT:

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any patents.

5253 WEST BELMONT AVENUE • CHICAGO, ILLINOIS 60641

PHONE: 312-282-0200 • FAX: 312-282-0821 • TWX: 910-221-4233 • CABLE ADDRESS: MASCHEM

OUTSIDE ILLINOIS CALL: 1-800-362-1855

SEP 14 1989

Mason Chemical Company
5253 West Belmont Avenue
Chicago, IL 60641

Attn: Marc M. Mason

Subject: Magquat 4450-E
EPA Registration 10324-35
Submission Dated March 14, 1989

The submitted final printed labels have been placed in your product file. They have not been reviewed in accordance with the PR Notice 82-2.

If you have any questions concerning this letter, please contact Martha DeLaney at (703) 557-6982.

Sincerely,

John H. Lee
Product Manager 31
Antimicrobial Program Branch
Registration Division H7505C

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

Mason Chemical Company
5253 West Belmont Avenue
Chicago, IL 60641

Attention: Marc M. Mason

Gentlemen:

Subject: Maquat 4480 - E
EPA Registration No. 10324-35
Your Submission Dated June 20, 1988
EPA Received Date June 24, 1988

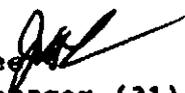
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit five (5) copies of your final printed labeling before you release the product for shipment.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, please contact Karen Leavy at (703) 557-3966.

Sincerely yours,

John H. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (TS-767C)

Enclosure

50350:I:Leavy:L-3:KENCO:11/23/88:12/5/88:EK:JH:AS

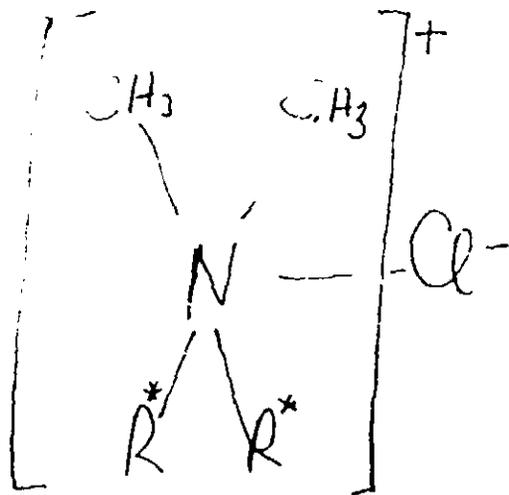
CONCURRENCES

SYMBOL							
SURNAME							
DATE							

"The Quaternary Specialists"

TECHNICAL BULLETIN

MAQUAT 4450-E EPA Registration Number 10324 - 34
 MAQUAT 4480-E EPA Registration Number 10324 - 35



Where *R is N-decyl
 Didecyl dimethyl ammonium chloride

ACCEPTED
 with COMMENTS
 in EPA Letter Dated:

DEC 16 1988

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

10324-35

I. Statement of Ingredients:

Active Ingredients:			
Didecyl dimethyl ammonium chloride	50%	80%	
Inert Ingredients:	50%	20%	
Total:	100%	100%	

50%
 50%
 100%

80%
 80%
 20%
 100%

5253 WEST BELMONT AVENUE • CHICAGO, ILLINOIS 60641

PHONE: 312-282-0200 - CABLE ADDRESS: MASCHEM - TWX: 910-221-4233

OUTSIDE ILLINOIS CALL: 1-800-362-1855

- A. Appearance: A clear to light straw in color - liquid
- B. pH (10% solution in distilled water): 6.0 - 8.0
- C. Color APHA: 250max 375max
- D. Average Molecular Weight: 361
- E. Solubility: Freely soluble in water, lower alcohols, ketones and glycols
- F. Compatibility: Maquat 4450-E and 4480-E is cationic and therefore is incompatible with soap and anionic surfactants. It is compatible with nonionics and other cationics.
- G. Corrosion: At use dilution -- is non corrosive to most plastics, natural rubber and monel metal. Corrosive to iron, bronze, brass, aluminum, lead, tin and copper.

III. Instructions for formulations:

It is a violation of federal law to use this product in a manner inconsistent with the labeling. Formulators using this product are responsible for EPA and State registrations for their formulated products. All products in which a claim is made of a germicidal, algacidal, bactericidal nature are required to be registered with the Environmental Protection Agency in Washington, D.C.

IV. Germicidal data available on request.

V. MSDS and toxicity studies on request.

ACCEPTED
with COMMENTS
in final report

Under the provisions of the
Federal Insecticide, Fungicide,
and Rodenticide Act, this product is
registered under EPA Reg. No.

10324-35

NON-WARRANTY STATEMENT:

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any patents.

BEST AVAILABLE COPY

PM 51

1032435

195

Mason Chemical Company
5253 West Belmont Avenue
Chicago, IL 60641

JUN 21 1988

Attention: Marc M. Mason

Gentlemen:

Subject: Maquat 4480 - E
EPA Registration No. 10324-35
Your Submission Dated June 20, 1988
EPA Received Date June 24, 1988

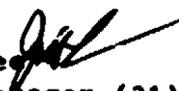
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit five (5) copies of your final printed labeling before you release the product for shipment.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, please contact Karen Leavy at (703) 557-3966.

Sincerely yours,

John F. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (TS-767C)

Enclosure

50350:I:Leavy:L-3:KENCO:11/23/88:12/5/88:EK:JH:AS

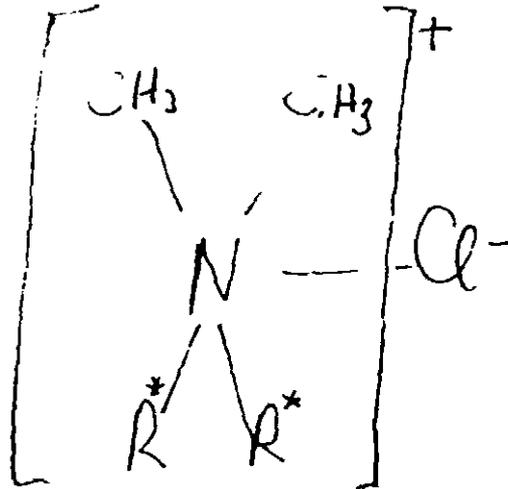
CONCURRENCES

SYMBOL							
SURNAME							
DATE							

TECHNICAL BULLETIN

MAQUAT 4450-E EPA Registration Number 10324 - 34

MAQUAT 4480-E EPA Registration Number 10324 - 35



ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 16 1988

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

10324-35

Where *R is N-decyl
Didecyl dimethyl ammonium chloride

I. Statement of Ingredients.

Active Ingredients:

Didecyl dimethyl ammonium chloride

Inert Ingredients:

Total:

50%

50%

50%

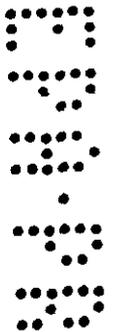
100%

80%

80%

20%

100%



6.0 - 8.0

C. Color APHA:

250max

375max

D. Average Molecular Weight: 361

E. Solubility: Freely soluble in water,
lower alcohols, ketones and glycols

F. Compatibility: Maquat 4450-E and 4480-E
is cationic and therefore is incompatible with
soap and anionic surfactants. It is compatible
with nonionics and other cationics.

G. Corrosion: At use dilution -- is non corrosive
to most plastics, natural rubber and monel
metal. corrosive to iron, bronze, brass,
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IV. Germicidal data available on request.

V. MSDS and toxicity studies on request.

ACCEPTED
with COMMENTS
in FILE 10324-35

Under the provisions of the
Fungicide and Disinfectant Act,
amended, for the pesticide
registered under EPA Reg. No.

10324-35

NON-WARRANTY STATEMENT:

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any patents.