



001677-00021-051999

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Systems Integration Group, Inc.

PM 31

1677-21

5-19-99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Ecolab Inc.  
370 N. Wabasha street  
St. Paul, Minnesota 55102

MAY 19 1999

Subject: Mikro-Quat  
EPA Registration No. 1677-21  
Letter Dated November 13, 1998

Attn: Ann M. Oxford  
Manager, Regulatory Services

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, fungicide and Rodenticide Act, as amended, is acceptable with comments provided you make the following changes to the label. Under the heading "Light-Duty Cleaning and Sanitizing - Non-Food Contact Surfaces", the product label should display a claim stating this product is an effective sanitizing agent against E. Coli.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the final printed label before this product is released for shipment.

If you have any questions concerning the comments in this letter, you should contact Zenobia Jones at (703) 308-6198.

Sincerely,



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

CONCURRENCES

SYMBOL	7510W						
SURNAME	Jones						
DATE	5-17-99						

# ECOLAB®

# Mikro-Quat®

## Detergent Germicide Deodorizer

EPA Letter Dated:

MAY 19 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. **1677-21**

# 13243

Net Contents: 15 gal/56.8 L

**ACTIVE INGREDIENT:**  
Alkyl (50% C<sub>14</sub>, 40% C<sub>12</sub>, 10% C<sub>10</sub>) dimethyl benzyl ammonium chloride ..... 9.0%  
**INERT INGREDIENTS\*** ..... 91.0%  
\*Active as cleaning and buffering agents.

### KEEP OUT OF REACH OF CHILDREN DANGER

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes severe eye damage and skin irritation.  
Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear safety  
glasses or goggles when handling. Wash after handling. Remove  
contaminated clothing and wash before reuse.



### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Flush immediately with cool water. Remove contact lenses. Continue flushing for 15 minutes, holding eyelids apart.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF SWALLOWED:** Rinse mouth at once; then drink one or two glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

**CALL A POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY**

**FOR EMERGENCY MEDICAL INFORMATION, CALL TOLL-FREE 1-800-328-0025**

**PELIGRO: SI NO PUEDE LEER EN INGLÉS, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.**

Detergent • Germicide • Deodorizer • Staphylocidal • Pseudomonacidal • Fungicidal • Cleanse, Disinfects and Deodorizes in one Operation • Pleasant Fragrance • Economical to Use  
Mikro-Quat has been found effective against *Human Immunodeficiency Virus Type 1* (Commonly known as the AIDS virus) on inanimate surfaces when tested according to EPA virucidal testing requirements.

Use *Mikro-Quat* in hospitals (suitable for conductive floors), nursing homes, food service facilities, schools and animal research facilities.

#### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For disinfection, apply *Mikro-Quat* to walls, floors, sinks, counter tops, hard surface furnishings and equipment with cloth, mop or hand spray bottle. Wet surfaces thoroughly and allow to remain wet for at least 10 minutes. Preliminary removal of gross soil is required. Prepare fresh solution daily or more often if the solution becomes diluted or soiled.

#### Light-Duty Cleaning and Sanitizing—Non-Food Contact Surfaces

Use 1/3 oz. *Mikro-Quat* per gal. (235 ppm) of warm or hot water. Allow 1 minute contact time.

*insert attached*

#### Combination Disinfection and Cleaning

Use 2/3 oz. *Mikro-Quat* per gal. of water (470 ppm). Allow 10 minutes contact time. Remove solution and entrapped soil with clean wet mop, cloth or wet vacuum pickup.

*Mikro-Quat* has been found effective against the following bacteria at 2/3 oz. per gallon in the presence of protein 15% blood serum:

Staphylococcus aureus	Salmonella choleraesuis	Vibrio cholerae
Salmonella typhosa	Escherichia coli	Pseudomonas
Trichophyton mentagrophytes	Staphylococcus aureus HL121	aeruginosa
Clostridium difficile (vegetative form) (Medicillin resistant)		Proteus vulgaris
Enterococcus faecalis (vancomycin resistant strain)		

**KILLS PATHOGENIC FUNGI** (T. mentagrophytes) on inanimate hard surfaces at the recommended use concentration of 2/3 oz. per gal. water (470 ppm).

**KILLS MILDEW FUNGI** on inanimate hard surfaces at the recommended use concentration of 2/3 oz. per gal. water (470 ppm).

**DO NOT MIX WITH ANYTHING BUT WATER**

#### DILUTION TABLE

ppm active quaternary	235	470	700
oz. per gal. water	1/3	2/3	1
dilution equivalent	1:400	1:200	1:128

**Virucidal:** Disinfects the following viruses on inanimate environmental surfaces at the 1:200 use dilution (2/3 oz. per gal.):

HIV-1 (AIDS virus)      Vaccinia      Herpes simplex, type 1

Influenza A2/Hong Kong      Newcastle Disease virus      Adenovirus type 3

This product kills HIV on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for the transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

#### SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids, wear personal protection such as disposable latex gloves, gowns, masks, or eye coverings.

**CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of disinfectant.

**CONTACT TIME:** 10 minutes

**DISPOSAL OF INFECTIOUS MATERIAL:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**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.

**CONTAINER DISPOSAL:** 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.

EPA Reg. No. 1677-21

EPA Est 1677-IL-2 (J), 1677-NJ-1 (W), 1677-TX-1 (D), 1677-GA-1 (M), 1677-MN-1 (P), 1677-CA-1 (S), 1677-PR-1 (B), 1677-CA-2 (R), 1677-OH-1 (H).

The superscript refers to the first letter of the data code.

For service or additional information, call 1-800-35-CLEAN (352-5325).

Authorized by USDA for use in Federally Inspected Meat and Poultry Plants.

**ECOLAB®** Ecolab Inc., Institutional Division  
370 Wabasha Street N.  
St. Paul, MN 55102-1390 USA

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 19 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 16772

At this concentration the product is effective in the presence of protein (5% blood serum)  
against *Escherichia coli* O157:H7, *Staphylococcus aureus*, and *Enterobacter aerogenes*.