

1677-21

07/23/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Ron Derbyshire
Ecolab
3570 N. Wabasha Street
St. Paul, MN 55102

JUL 23 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Subject: **Mikro-Quat**
EPA Registration Number 1677-21
Application Dated: March 21, 2013
EPA Received Date: March 22, 2013

Dear Mr. Derbyshire:

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment:

- To add Use Dilution container wording and standardize Container Handling.

General Comments

Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and it's implementing regulation at 40 CFR 152.3.

Should you have any questions or comments concerning this letter, please contact Emilia Oiguenblik at (703) 308-0199 or Velma Noble at (703) 308-6233.

Sincerely,

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

Attachment: Acute Tox. Review

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

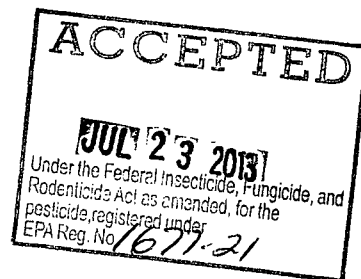
Mikro-Quat

Detergent•Germicide•Deodorizer

Active Ingredient:

Alkyl (50%C14, 40%C12, 10%C16)
Dimethylbenzyl Ammonium Chloride9.5%
Inert Ingredients*:90.5%
Total:.....100.0%

*Active as cleaning and buffering agents.



**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE: Causes irreversible eye damage and skin burns. Do not get in eyes or on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear protective clothing and rubber gloves. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS (only required on containers greater than 5 gallons): Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

FIRST AID

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 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 SWALLOWED: Call a poison control center or doctor for treatment advice. Have a 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.

CALL A POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY FOR EMERGENCY MEDICAL INFORMATION, CALL 1-800-328-0026 OUTSIDE NORTH AMERICA, CALL 1-651-222-5352

(Note to reviewer – The following is optional marketing language)

Detergent - Germicide - Deodorizer - Staphylocidal - Pseudomonacidal - Fungicidal –Cleans, 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use Mikro-Quat on washable, hard, non-porous surfaces of: glazed ceramic, glazed enamel, glazed porcelain, laminated surfaces, metal, plastic, stainless steel

For disinfection, apply *Mikro-Quat* to walls, floors, sinks, counter tops, hard nonporous 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.

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

To Clean and Deodorize

Use 1/3 oz. Mikro-Quat per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

Light-Duty Cleaning, and Sanitizing - Non-Food contact Surfaces

Use 1/3 oz. *Mikro-Quat* per gal. of warm or hot water (235 ppm). Allow 1 minute contact time. At this concentration the product is effective in the presence of protein (5% blood serum) against *Escherichia coli* 0157:H7, *Staphylococcus aureus*, and *Enterobacter aerogenes*.

Combination Disinfection and Cleaning

Use 1 oz. *Mikro-Quat* per gal. of water (700 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 1 oz. per gallon in the presence of protein (5% blood serum):

- | | |
|--|--|
| <i>Staphylococcus aureus</i> (ATCC 6538) | <i>Escherichia coli</i> (ATCC 11229) |
| <i>Salmonella typhi</i> (ATCC 6539) | <i>Staphylococcus aureus</i> HL121 (Methicillin resistant) |
| <i>Trichophyton mentagrophytes</i> (ATCC 9533) | <i>Vibrio cholerae</i> (ATCC 25873) |
| <i>Proteus vulgaris</i> (ATCC 13315) | <i>Pseudomonas aeruginosa</i> (ATCC 15442) |
| <i>Enterococcus faecalis</i> (vancomycin resistant) (ATCC 51299) | |
| <i>Salmonella enterica</i> (ATCC 10708) | |

Virucidal: Disinfects the following viruses on inanimate environmental surfaces at a use dilution of 1:128 (1 oz. per gal. of water). *Mikro-Quat* has been found effective against the following viruses at 1 oz. per gallon in the presence of protein (5% blood serum):

- | | |
|---|--------------------------------------|
| HIV-1 (AIDS virus) | Vaccinia (ATCC VR-119) |
| Herpes Simplex, type 1 (ATCC VR-733) | Influenza A2/Hong Kong (ATCC VR-544) |
| Newcastle Disease virus (ATCC VR-108) | |
| Norovirus (Feline calicivirus surrogate - (ATCC VR-782) | |

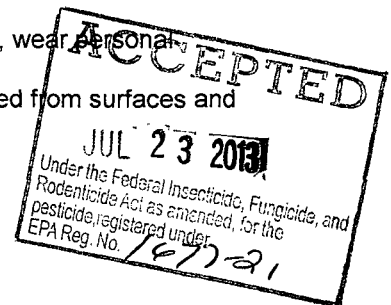
This product kills HIV on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely 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, and 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 must be autoclaved and disposed of according to local regulations for infectious waste disposal.

KILLS PATHOGENIC FUNGI (*T. mentagrophytes*), the agent that causes Athlete's foot fungus, on inanimate surfaces such as shower room floors, bath mats, and locker room benches at the use concentration of 1 oz. per gallon of water (700 ppm). Follow the disinfection directions and allow 10 minute contact time.

KILLS MILDEW FUNGI on inanimate surfaces at the use concentration of 1 oz. per gallon of water 700 ppm). Follow the disinfection directions and allow 10 minute contact time.

DO NOT MIX WITH ANYTHING BUT WATER

DILUTION TABLE:

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

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical devices prior to sterilization or high-level disinfection.

Optional Marketing Language:

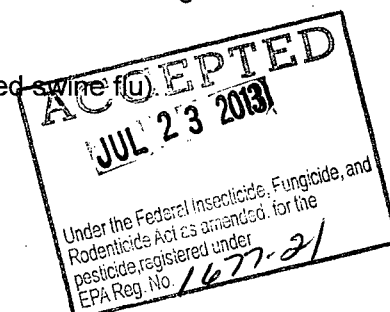
- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus.
- This product is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

STORAGE & DISPOSAL

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

Pesticide Storage: Store in original container in a locked storage area. Store at ambient temperature. Keep container tightly closed when not in use. Do not freeze. In case of spill, flood the area with large quantities of water. Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

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 Handling and Disposal:

For containers 5 gallons or less. Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Fill container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

For containers greater than 5gallons. Non-refillable container. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by puncture and dispose of in a sanitary landfill, or by incineration.

<p>Net Contents: 1 U.S. Gal. (3.78 L) 15 U.S. Gal. (56.7 L) 55 U.S. Gal. (208 L)</p>

Ecolab Inc.
Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102

EPA Reg. No. 1677-21
EPA Est.: 1677-MN-1 (P), 1677-IL-2 (J)
1677-CA-2 (R), 1677-TX-1 (D), 1677-OH-1 (H)
1677-IL-2 (J), 1677-CA-1 (S),
1677-NJ-1 (W), 1677-GA-1 (M), 1677-WV-1 (V)
Superscript refers to first letter of date code

ACCEPTED
JUL 23 2013
Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide, registered under
EPA Reg. No. 1677-21

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SECONDARY CONTAINER LABEL

(Note to reviewer: This secondary container label will be used only when the product is diluted according to label directions. All label applications are \leq 1 oz per 1 gallon water.

MIKRO-QUAT

EPA Reg. No. 1677-21

Active Ingredient:

Alkyl (50%C14, 40%C12, 10%C16)

Dimethylbenzyl Ammonium Chloride 9.5%

Inert (Other) Ingredients*: 90.5%

Total:..... 100.0%

*Active as cleaning and buffering agents.

KEEP OUT OF REACH OF CHILDREN

The product in this container is diluted _____
with water as directed on the concentrate product label.

Follow the **DIRECTIONS FOR USE** on the concentrate label when applying this product. When in use dilution, the product is classified as Acute Toxicity Category IV and requires no PPE or precautionary language.

ACCEPTED
JUL 23 2013
Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
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