

NOV 17 2003

Mr. Brian Brosdahl  
Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, MN 55102

SUBJECT: Multi-Quat  
EPA Registration Number: 1677-198  
Application Dated: August 15, 2003  
Receipt Date: August 20, 2003

Dear Mr. Brosdahl:

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

- add additional use sites and directions for use
- revise food contact sanitizing directions

**Conditions**

Revise the label as follows:

1. Delete the reference on the first page for the use of this product as a "Fungicide" as your label does not include directions for this use.
2. On page two, the second section in the Directions for Use section, revise by stating "Prepare fresh solution at least daily or when use solution becomes visibly dirty." such that this statement is in agreement with PR Notice 2000-5.
3. Revise the directions for the use of this product as a non-acid toilet bowl disinfectant to include the following as per the cited label for Reg. No. 6836-78:

A. Revise the "From Use Solution" to state: " sponge or mechanical spray

Brush or swab thoroughly. Let stand..."

**CONCURRENCES**

SYMBOL	7510C						
SURNAME	J. J. [Signature]						
DATE	11/17/03						

B. Revise the "For Heavy Duty Use" to state: "...sponge or sprayer. *Brush or swab thoroughly.* Let stand..."

4. Revise the directions for "Deodorization" to specifically define the surfaces to be treated as follows: "...and any other *hard nonporous surfaces* in odor causing areas..."

5. Revise the directions for the use of this product as a poultry hatchery disinfectant to include the following as per the cited label for Reg. No. 10324-81:

Revise to state: "...with a mop, cloth, brush, or coarse spray. *Apply to hatcher's setters, trays, racks, sexing tables, delivery trucks and other hard surfaces. Wet surfaces and allow to remain wet...*"

6. Revise the directions for the use of this product for disinfection and deodorizing of animal housing facilities to include the following as per the cited label for Reg. No. 10324-81:

Add the following text immediately after the statement ending: "...wet all surfaces for 10 minutes."

*"Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrappers used in removing litter and manure. Ventilate buildings, cars, trucks and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed set and dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse."* Delete the statements: "Ventilate buildings...before reintroducing animals."

7. Revise the directions for the use of this product as a shoe bath sanitizer to include the following as per the cited label for Reg. No. 10324-81:

"...Sanitize in a solution of *0.34 ounces per 1 gallon of water (200ppm)*. Scrape waterproof..." and "...Change the solution in the bath daily *or sooner if solution appears diluted or soiled.*"

8. Revise the directions for this use of this product to sanitize equipment in food processing plants and restaurants such that the last statement is in agreement with PR Notice 2000-5 as follows: "*Expose all surfaces* to the sanitizing solution for a period..."

9. Revise the directions for this use of this product for continuous treatment of conveyors such that the last statement is in agreement with PR Notice 2000-5 as follows: "*Conveyors and other equipment must be free of product* when applying this coarse spray."

10. Revise the directions for sanitizing shell eggs intended for food such that the last statement is in agreement with PR Notice 2000-5 as follows: "*Do not reuse solution for sanitizing eggs.*"

CONCURRENCES

SYMBOL							
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

11. Add the following statement immediately after the directions for sanitizing hatchery rooms using fogging devices as per the cited label for Reg. No. 10324-81:

*"Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room and machine surfaces."*

12. Revise the statement at the beginning of page 5 for manual operation to be in agreement with PR Notice 2000-5 as follows: *"Prepare a fresh sanitizing solution as soon as it becomes diluted or soiled."*

13. Delete the following statement on page 5 as it is not in agreement with the use sites listed on this label: "For Institutional and Commercial Use Only"

14. Revise the "Pesticide Storage" statement to include the following as per PR Notice 83-3: *"This product must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use."* Delete the statement: "Store in a safe area."

15. Revise this label to include a separate statement for the storage and disposal of containers which are one gallon in size or less:

**"Storage and Disposal**

Do not reuse empty container. Wrap container and put in trash."

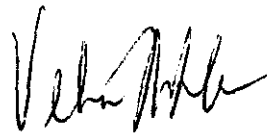
Delete this statement from the current container disposal statement.

**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.

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 (7510C)

Enclosure: Stamped Label

7510C:T.Lantz:11/14/03:1677-198

**CONCURRENCES**

<b>SYMBOL</b>								
<b>SURNAME</b>								
<b>DATE</b>								

# Multi-Quat

Disinfectant - Cleaner - Sanitizer  - Deodorizer  
with Organic Soil Tolerance for Hospitals, Institutional and Industrial Use

Institutions - Hospitals - Nursing Homes - Health Care Facilities - Schools - Restaurants  
-Food Services - Dairies - Beverage and Food Processing Plants - Farm Premises -  
Poultry Premises - Poultry Hatcheries - Animal Housing Facilities

**ACTIVE INGREDIENTS:**

Alkyl (C <sub>14</sub> , 50% C <sub>12</sub> , 40% C <sub>16</sub> , 10%)	
Dimethyl benzyl ammonium chloride .....	3.000%
Octyl decyl dimethyl ammonium chloride .....	2.250%
Didecyl dimethyl ammonium chloride .....	1.125%
Diocetyl dimethyl ammonium chloride .....	1.125%
<b>INERT INGREDIENTS:</b> .....	92.500%
<b>TOTAL:</b> .....	100.000%

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, this pesticide,  
registered under EPA Reg. No. 1677-198

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, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses) protective clothing and rubber gloves. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**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.

**FOR EMERGENCY MEDICAL INFORMATION, CALL TOLL-FREE 1-800-328-0026**

Have the product container or label with when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS (5 gallons or greater):**

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 the 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.

**Directions For Use:**

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

Apply *Multi-Quat* with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. Fresh solution should be prepared daily or when the use solution becomes visibly dirty.

**Disinfection in Hospitals, Nursing Homes, and Other Health Care Institutions**

For disinfecting floors, walls, countertops, bathing area, lavatories, bedframes, tables, chairs, garbage pails and other hard, nonporous surfaces. Add 1.0 oz. Multi-Quat per gallon of water (8 ml/L). Apply to previously cleaned hard surfaces. Treated surfaces must remain wet for 10 minutes. At this use level, *Multi-Quat* is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test.

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.

or

This product is not for use on medical device surfaces.

**Disinfecting-Dairies, Beverage and Food Processing Plants:** For floors, walls, woodwork, sink tops, garbage pails, telephones, rest rooms, bathroom fixtures, and other hard, nonporous surfaces, *Multi-Quat* is effective against *Pseudomonas aeruginosa* at 1.0 oz. per gallon of water. Remove gross filth or heavy soil and pre-clean surface. Apply disinfecting solution to surface by flushing, mopping, sponging or hand pump spraying so as to thoroughly wet surface. Allow surface to remain wet for 10 minutes, then remove solution with a clean mop, cloth, or wet vacuum pickup. Prepare fresh use solution at least once daily or when it becomes visibly dirty. Any food contact surfaces that have been disinfected must be thoroughly rinsed with potable water.

**Non-Acid Toilet Bowl Disinfectant / Cleaner Directions:**

Remove gross filth prior to disinfection.

**From Concentrate:**

Add 1/2 oz. to the bowl and mix. Brush over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

**From Use Solution:**

Empty toilet bowl or urinal and apply 1oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or mechanical spray. Let stand for 10 minutes and flush.

**For Heavy Duty Use:**

Empty toilet bowl or urinal and apply 4 oz. per gallon use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, let stand for 10 minutes and flush.

**Deodorization:** This product deodorizes garbage storage areas, garbage bins, toilet bowls and any other odor causing areas. Mix 1/2 oz. per gallon of water and apply solution to surfaces. Thoroughly wet surfaces, allow to air dry.

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**Disinfection Of Poultry Premises, Trucks, Coops And Crates:**

1. Remove all poultry and feeds from premises, trucks, coops and crates.
2. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with a detergent and rinse with water.
5. Saturate surfaces with 4.0 oz. per 4 gallons of water *Multi-Quat* solution for a period of 10 minutes.
6. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.
7. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse.

See your Ecolab representative for specific recommendations for all cleaning and rinsing requirements.

**Poultry Hatchery Disinfection:**

Clean out any remaining eggs and chicks. Remove gross soils, such as litter, down, shell fragments or other hatching related debris. Empty all racks and other equipment. Thoroughly wash all surfaces, including floors, walls, conveyors, trays and water systems with a recommended detergent. Rinse thoroughly with water. Apply 4.0 oz. per 4 gallons of water solution of *Multi-Quat* with a mop, cloth, brush or coarse spray. Wet all surfaces and allow to remain wet for 10 minutes. Ventilate buildings and other closed spaces. Allow to dry before reintroducing eggs.

**Disinfection and Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches):**

Remove animals and feed from facilities. Remove litter, waste matter and gross soils. Empty all troughs, rack and other feeding and watering equipment. Wash surfaces with a recommended alkaline detergent, by manual, foam, or spray application. Rinse with water. Apply a 4.0 oz. per 4 gallons of water solution of *Multi-Quat* with a mop, cloth, brush or coarse spray. Wet all surfaces and allow to remain wet for 10 minutes. Ventilate buildings and other closed spaces. Allow to air dry before reintroducing animals.

**Sanitizing Directions:**

*Multi-Quat* can be used to sanitize hard, non-porous food contact surfaces such as tables, counters, and food processing equipment. Pre-flush or pre-scrape utensils, glasses and hard, non-porous surfaces to remove gross food particles, pre-soak if necessary. Thoroughly wash surfaces with detergent followed by a potable water rinse. Tilt all movable surfaces for proper drainage. Sanitize in 150 ppm to 400 ppm solution (0.25 oz. - 0.67 oz. per 1 gal. of water). Immerse utensils, glasses, and plates for at least 1 minute. Thoroughly wet immovable surfaces using cloth, spray or sponge for 1 minute. Place sanitized utensils, glasses, and plates on rack or drain board to dry. Let immovable surfaces drain and air dry. Do not rinse. Prepare a fresh solution daily.

**Shoe Bath Sanitizer Directions:**

To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings and hatcheries. Sanitize in a solution of 1/4 oz. to 0.67 oz. of *Multi-Quat* per 1 gallons of water (150 - 400 ppm). Scrape waterproof work boots (shoes) and place in solution for 60 seconds prior to entering area. Change the solution in the bath daily or when solution appears diluted or soiled.

**Shoe Foam Sanitizer Directions:**

*Multi-Quat* can be used to prevent tracking harmful organisms into animal areas and packaging and storage areas of food plants. Apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 1.36 to 2 ounces per gallon of water (or equivalent use dilution) (800 to 1200 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foam for 60 seconds prior to entering area. Foam area should be washed and replaced when it appears dirty.

NOV 17 2003

**Sanitizing Equipment - Food Processing Plants – Restaurants:** For sanitizing precleaned food processing equipment or utensils in federally inspected meat and poultry processing plants or restaurants. Clean equipment with a good detergent and follow with a potable water rinse, then rinse equipment with a sanitizing solution of 1 oz. to 2.67 oz. of *Multi-Quat* per 4 gallons of water (150 - 400 ppm). All surfaces should be exposed to the sanitizing solution for a period of not less than 1 minute. Allow equipment to drain thoroughly and air dry.

**Restaurant and Bar Rinse - Sanitizing Eating and Drinking Utensils**

1. Scrape and pre-flush utensils to remove excess soil.
2. Wash with good detergent or compatible cleaner (see your Ecolab representative for a recommendation).
3. Rinse with potable water.
4. Sanitize in a solution of 0.25 oz. – 0.67 oz. of *Multi-Quat* to 1 gallon of water (150 - 400 ppm). Immerse all utensils for at least 1 minute. Use 2 minutes exposure time if required by governing sanitary code.
5. Drain and air dry.

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**For Continuous Treatment of Conveyors:** Remove gross food particles and excess soil by a pre-flush or pre-scrape. Wash with a good detergent or compatible cleaner. Rinse equipment thoroughly with potable water, then rinse equipment with a sanitizing solution. During processing, apply *Multi-Quat* at a 150 to 400 ppm quat level to conveyors with MIKRO MASTER or other suitable feeding equipment. Controlled volumes of sanitizer are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. During interruptions in operation, coarse spray equipment, peelers, collators, slicers and saws with MIKRO MASTER dispensed *Multi-Quat* solution of 150 to 400 ppm quat. Conveyor equipment should be free of product when applying this coarse spray.

**Sanitizing Shell Eggs Intended For Food:** To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of 1 oz. to 2.67 oz. of *Multi-Quat* in 4 gallons of warm water (150 to 400 ppm). The solution should be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with *Multi-Quat* shall be subjected to a potable water rinse only if broken immediately for use in the manufacture of egg products. Eggs should be reasonably dry before casing or breaking. The solution should not be reused for sanitizing eggs.

**Directions For Fogging:** To sanitize hard, non-porous room surfaces in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cu. ft. of room area with a *Multi-Quat* solution containing 1.5 oz. *Multi-Quat* to 1 gallon of water (900 ppm). Vacate the area of all personnel for minimum of 2 hours after fogging. All food contact surfaces must be sanitized with a *Multi-Quat* solution of 150 to 400 ppm active quaternary (1 oz. to 2.67 oz. per 4 gallons) prior to reuse. Allow food contact surfaces to drain thoroughly before operations are resumed.

**Note:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has settled (2 hours after fogging is completed). If the building or room must be entered, then the individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants. Fogging is to be used as and adjunct to acceptable manual cleaning and disinfecting for room and machine surfaces.

**Sanitizing Hatchery Rooms Using Fogging Devices:**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls, and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 187 ounces of this product to 2.5 gallons water. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and

Multi-Quat label

8/15/03

rinse with water.

**NOTE:**

**FOR MECHANICAL OPERATIONS:** A prepared use solution may not be reused for sanitizing, but may be reused for other purposes such as cleaning.

**FOR MANUAL OPERATIONS:** A fresh sanitizing solution should be prepared as soon as it becomes diluted or soiled.

**FOR INSTITUTIONAL AND COMMERCIAL USE ONLY  
DO NOT MIX WITH ANYTHING BUT WATER**

**STORAGE & DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL**

**PESTICIDE STORAGE:** Keep in cool area. Store in a safe area. Keep container closed when not in use. In case of spill, dike area; take up the material with absorbent and place in sealed container for proper disposal. Small spills may be mopped up and the mop laundered. Do not reuse container. Do not stack up over three pails high.

**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:**

(1 gallon or less) Do not reuse empty containers. Wrap container and put in trash.

(greater than 1 gallon) 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.

(2.5 gallon bladder in box) Remove empty bladder from outer corrugated box. Triple rinse bladder (or equivalent). Offer box and bladder for recycling or dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Totes) Verify that the tote is empty. Do not rinse or clean. Seal tote and contact Ecolab for return.

EPA Reg. No. 1677-198

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-IL-3 (F), 1677-OH-1 (H), 1677-WV-1 (V), 303-IL-1 (L), 1677-CA-2 (R)

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

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

Net Contents: 1 gal (3.78 L)  
2.5 gal (9.45 L)  
5 gal (18.9 L)  
55 gal (208.8 L)  
300 gal tote

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