

1677-198

6-14-2005
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Joy A. Salverda
Regulatory Analyst
Ecolab Inc.
370 N. Wabasha Street
St. Paul, MN 55102

JUN 14 2005

Subject: Multi - Quat
EPA Reg. No. 1677-198
Application Dated: Jan 20, 2005
Receipt Date: Jan 24, 2005

Dear Joy A. Salverda

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

- change use rate for public health pests
- submission of acute toxicity studies

Acceptable Data

The product specific toxicity and efficacy data is acceptable as follows:

Data Requirement	Means of Support	Status
Enterobacter sakazakii	Submitted study, MRID 464703-01	Acceptable

- Data to support the use of the product as a sanitizing rinse against Enterobacter Sakazakii at a 131ppm active quat solution, in the presence of 500 ppm hard water. Enterobacter Sakazakii is not listed on the product label.

General Comments

- The "Hospital Disinfection Directions" is inconsistent. The direction say to apply the use solution to previously cleaned surfaces. Later, the directions say that the use solution is effective in the presence of 5% blood serum.

Under the "Emergency Medical Information" section, revise the statement "with when calling" to read "with you when calling."

CONCURRENCES

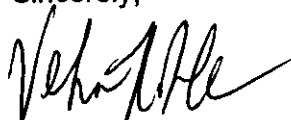
SURNAME	DATE						
J. Salverda	6-13-05						

- Under "Directions for Use" section, revise the statement "*product in manner*" to read "*product in a manner.*"
- Under the "Directions for Fogging" section, revise the statement "*as and adjunct*" to read "*as an adjunct*" also revise the statement "*disinfecting for room*" to read "*disinfecting of room.*"

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 or comments concerning this letter, please contact Velma Noble at (703) 308-6233.

Sincerely,



Velma Noble
Product Manager (31)
Regulatory Management Branch1
Antimicrobial Division (7510c)

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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 ₁₄ , 50% C ₁₂ , 40% C ₁₆ , 10%)	
Dimethyl benzyl ammonium chloride.....	3.00%
Octyl decyl dimethyl ammonium chloride.....	2.25%
Didecyl dimethyl ammonium chloride.....	1.35%
Diocetyl dimethyl ammonium chloride.....	0.90%
OTHER INGREDIENTS:	92.50%
TOTAL:	100.00%

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 and wash contaminated clothing 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.

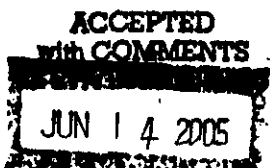
FOR EMERGENCY MEDICAL INFORMATION, CALL TOLL-FREE 1-800-328-0026

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.



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

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.

HOSPITAL DISINFECTION DIRECTIONS:

This product can be used to disinfect floors, walls, countertops, bathtubs, lavatories, bed-frames, tables, chairs, garbage pails and other hard, nonporous surfaces in health care institutions. To disinfect add 1.0 oz. *Multi-Quat* per 1 gallon of water (8 ml/L). Apply to previously cleaned surfaces. Treated surfaces must remain wet for 10 minutes. Remove solution with a clean mop, cloth, or wet vacuum pickup or allow to air dry. Prepare fresh solution at least daily or when use becomes visibly dirty. 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.

GENERAL DISINFECTION:

At 1.0 oz. per 1 gallon of water, this product is an effective general disinfectant that can be used to disinfect floors, walls, woodwork, sink tops, garbage pails, telephones, rest rooms, bathroom fixtures, and other hard, nonporous surfaces. 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. Remove solution with a clean mop, cloth, or wet vacuum pickup or allow to air dry. Prepare fresh solution at least daily or when use becomes visibly dirty. Any food contact surfaces that have been disinfected must be thoroughly rinsed with potable water.

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

Non-Acid Toilet Bowl Disinfectant / Cleaner Directions:

Remove gross filth prior to disinfection.

From Concentrate:

Add ½ 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. Brush or swab thoroughly. 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. Brush or swab thoroughly. Let stand for 10 minutes and flush.

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. Apply to hatching, setters, trays, racks, sexing tables, delivery trucks and other hard surfaces. Wet 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. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers 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.

Deodorizing Directions:

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

Non-Food Contact Surface Sanitizing:

Add 0.34 oz. of *Multi-Quat* per 1 gallon of water (200 ppm active quat) to sanitize hard, nonporous non-food contact surfaces. Apply sanitizer use-solution with a cloth, mop, sponge, sprayer or by immersion. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop, or cloth or allow to air dry.

Entryway Sanitizing Systems:

To prevent cross contamination of harmful organisms from area to area, set the system to deliver sanitizing solution at 0.68 – 2.04 oz. per gallon of water (400-1200 ppm active quat). The foam (or spray) should cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor. Do not mix other foam additives to the sanitizing solution.

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 0.34 oz. of *Multi-Quat* per 1 gallon of water (200 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 sooner if 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 foamed area for 60 seconds prior to entering area. Foam area should be washed and replaced daily or when it appears dirty.

Multi-Quat can be used to sanitize hard, non-porous food contact surfaces such as tables, counters, utensils and food processing equipment.

Multi-Quat is an effective sanitizer against *Escherichia coli* and *Staphylococcus aureus* on food contact surfaces when used at 0.25 oz. – 0.67 oz. per 1 gallon of 400 ppm hard water (150 ppm to 400 ppm active quat).

Multi-Quat is an effective sanitizer against *Escherichia coli*, *Staphylococcus aureus*, *Campylobacter jejuni*, *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Salmonella choleraesuis*, *Shigella sonnei* and *Yersinia enterocolitica* on food contact surfaces when used at 0.32 oz. – 0.67 oz. per 1 gallon of 500 ppm hard water (200 ppm to 400 ppm active quat).

Sanitizing Equipment – (Food Processing Plants, Dairies or Restaurants): For sanitizing pre-cleaned food processing equipment or utensils in federally inspected meat and poultry processing plants or restaurants. Prior to application, remove gross food particles and soil by a pre-flush, pre-scrape or when necessary, a pre-soak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution. Apply a use-solution of 1 oz. to 2.67 oz. of *Multi-Quat* per 4 gallons of 400 ppm hard water (150 - 400 ppm active quat) or 1.25 oz. to 2.67 oz. of *Multi-Quat* per 4 gallons of 500 ppm hard water (200 - 400 ppm active quat). Expose all surfaces to the sanitizing solution for a period of not less than 1 minute. Allow equipment to drain thoroughly and air dry.

In dairy processing facilities and restaurants in Wisconsin, clean equipment with a good detergent and follow with a potable water rinse, then rinse equipment with a sanitizing solution of 1.25 oz. to 2.67 oz. of *Multi-Quat* per 4 gallons of 500 ppm hard water (200 - 400 ppm active quat).

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 400 ppm water (150 - 400 ppm active quat). In Wisconsin sanitize in a solution of 0.32 oz. – 0.67 oz. of *Multi-Quat* to 1 gallon of 500 ppm water (200 - 400 ppm active quat). Immerse all utensils for at least 1 minute. Use 2 minutes exposure time if required by governing sanitary code.
5. Drain and air dry.

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. Conveyors and other equipment must be free of product when applying this coarse spray. Use 200 ppm to 400 ppm quat level in Wisconsin dairy processing facilities.

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. Do not reuse solution for sanitizing eggs.

Sanitizing – Non-Porous Gloved Hands:

To prevent the spreading of harmful organisms into animals areas and the packaging and storage areas of food plants, dip pre-washed (plastic, latex or other synthetic rubber) gloved hands into a suitable clean container that contains enough freshly made sanitizing solution to cover the gloved area. **Do not let sanitizing solution come in contact with exposed skin.** Make up the sanitizing solution by adding 1 to 2.67 ounces of product per 4 gallons of water (or equivalent use dilution)(150-400 ppm active quat). Dip (soak) in solution for 60 seconds. No potable water rinse is allowed. Change the sanitizing solution in the bath at least daily or when solution appears dirty.

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 rinse with water. Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting of room and machine surfaces.

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: Prepare a fresh sanitizing solution as soon as it becomes diluted or soiled.

DO NOT MIX WITH ANYTHING BUT WATER

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STORAGE & DISPOSAL

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

(1 gallon or less)

Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Discard in trash or recycle.

(greater than 1 gallon)

STORAGE & DISPOSAL

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

Pesticide Storage: Do not store on side. Avoid creasing or impacting of side walls.

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:

(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