

FEB 22 2002

Ms. Maureen Smith
Quality Assurance Manager
Essential Industries
P.O. Box 12
Merton, WI 53056-0012

Subject: Quat 44
EPA Registration No. 3838-36
Application Date: 7/20/01
Receipt Date: 9/12/01

Dear Ms. Smith:

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

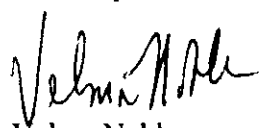
Update Label and add organisms

GENERAL COMMENTS

A stamped copy of the accepted labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product hearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Zenobia Jones at (703) 308-6198.

Sincerely,



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

CONCURRENCES							
SYMBOL	7510C						
SURNAME	Z Jones						
DATE	2-21-02						

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

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

(If container is 5 gallons or larger the following statement must appear on the label)

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents

(If the container is greater than one gallon use the following storage and disposal statements)

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

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: (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less use the following storage and disposal statements)

STORAGE AND DISPOSAL

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

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

Key label

QUAT 44

Cleaner - Disinfectant - Deodorizer - Fungicide - Mildewstat - Virucide* - With Organic Soil Tolerance For Hospitals Nursing Home, Whirlpool, Home, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey, Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 2.25%

Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride 2.25%

INERT INGREDIENTS: 95.50%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See left panel for additional precautionary statements

First Aid

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

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

IF INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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



ESSENTIAL INDUSTRIES

ACCEPTED FEB 22 2002

P.O. Box 12 Merton, Wisconsin 53056-0012 USA

(262) 538-1122 www.essential.com

Insecticide, Fungicide, and Rodenticide Act as amended, for the

E.P.A. Reg. No. 3838-36

E.P.A. Est. No. 3838-36

NET CONTENTS

BATCH NO

279

This product contains no phosphorus.

This product is a phosphate free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

This product maximizes labor results by effectively controlling odors.

This product is for use in kitchens, bathrooms, and other household areas.

When used as directed, this product will deodorize surfaces in rest room and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

Cross contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination not only in hospitals, but in schools, institutions and industry.

This product delivers non-acid disinfection performance in an economical concentrate.

This product is a concentrated Hospital Use disinfectant that is effective against a broad spectrum of bacteria, is virucidal*, fungicidal, and eliminates odor causing bacteria when used as directed.

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

This product will not leave a grit or soap scum. Will not cause swelling of transducer membrane or harm compressor plates.

This product is a versatile Disinfectant for Veterinarian, Animal Care and Agricultural applications.

This product is a complete, chemically balanced disinfectant that provides clear use solutions.

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors.

This product is a one step disinfectant that is effective against a broad spectrum of bacteria, is virucidal* (including HIV-1 & HBV) and inhibits the growth of mold and mildew and their odors when used as directed.

This product is a no rinse disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

This product is recommended for use as a disinfectant on hard, nonporous surfaces (at 703 ppm active). A potable water rinse is required after application on food contact surfaces.

When used as directed, this product will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage area, and other places where bacterial growth can cause mal odors.

This product cleans, shines, deodorizes and disinfects all hard non-porous surfaces listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

This product is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

This product is a multi surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non food contact glass surfaces.

Use this product to clean and disinfectant non-porous personal protective safety equipment, protective headgear, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Caution: Cleaning at the recommended 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)

✓ This product is recommended for use in household and commercial humidifiers. Use of this product will cont. build-up of slime and unpleasant (malodors) odors.

✓ This product is a versatile broad spectrum disinfectant formulated for use in Ultrasonic Baths (Ultrasonic cleaning units).

✓ This product is a versatile cleaner and broad spectrum disinfectant formulated for use on bath and therapy equipment (Whirlpools).

✓ Use this product to disinfect non-porous salon/barber tools and instruments: combs, brushes, scissors, clippers, trimmers, razors, blades, tweezers and manicure instruments, footbaths.

This product may be applied through automatic washing systems, immersion tanks, foaming apparatus, low pressure sprayers, and fogging (wet misting) systems.

✓ This product neutralizes musty odors and tough odors from smoke, pet accidents, and spills on contact.

✓ This product is specially formulated to effectively eliminate offensive odors cause by mold and mildew.

✓ This product controls (reduces) (eliminates) (neutralizes) (destroys) odors to make your home (kitchen) (bathroom) sanitary.

This product is effective against household germs and odors by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors.

✓ Use this product on the multi-touch surfaces responsible for cross-contamination.

✓ This product is effective at controlling mold and mildew odor on shower curtains.

✓ This product may be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

✓ This product provides long lasting freshness against tough (pet) odors such as odors from litter boxes and pet accidents

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.

✓ When used as directed, this product will disinfect hard, non-porous surfaces such as flower buckets, floors and walls of coolers, design and packing benches and counter tops.

✓ This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop.

✓ Use This product to clean, disinfect and deodorize flower buckets, walls floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop.

✓ This product may be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, green house packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause:

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.
2. Production of ethylene gas, which can injure blooms of the most sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

✓ Floor cleaner.

✓ One step cleaner.

✓ Cleans everyday kitchen messes.

✓ Cleans kitchen surfaces and food preparation areas.

ACCEPTED
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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 3838-36

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Leaves (no) (low) residue. ?

Cleans and shines

Great for use (on) (in) the (kitchen), (bathroom), (floors) and other household areas. Removes (eliminates) odors. Deodorizes. Safe for most surfaces

Safe for most surfaces. For a cleaner, fresher household. Cleans without bleaching. Removes stains. Removes dirt. Non-staining. Clear formula.

Eliminates odors caused by bacteria (and) (mildew) (and) (non-fresh foods). Kills odor causing bacteria in the kitchen (bathroom).

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grim. Kills bacteria dish soap can't.

Disinfects kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills household bacteria.

Antibacterial. Kills Athlete's Foot fungus in the bathroom.

Hospital use Disinfectant. Institutional Disinfectant.

Kills germs while it cleans.

Kills common kitchen (bathroom) germs (and viruses).

QUAT 44 for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities.
- Patient care rooms & facilities, recovery, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpools, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities
- Day care centers and nurseries, sick rooms
- Acute care institutions, alternate care institutions. Home healthcare institutions
- Life care retirement communities
- Restaurants, restaurants and bars, bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photo copy centers, bicycle shops, auto repair centers
- Computer manufacturing sites, toy factories
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms
- Police stations, courthouses, municipal government buildings, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Public restrooms, travel rest areas, shower rooms, shower stalls, bathrooms
- Hotel, motels, dormitories
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, community centers, libraries, universities, athletic facilities and locker rooms, exercise rooms, gymnasiums
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities
- Health clubs, spas, tanning spas, tanning beds, footbaths, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors
- Museums, art galleries, post offices, performance/theater centers, bookstores, movie houses
- Recycling centers

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- Humidifier water tanks.
- Camp ground, day grounds, recreational facilities, picnic facilities, sports arenas, sports complexes
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms
- Fishery, Milk, Citrus, Ice Cream and Potato Processing Plants
- Veterinary clinics, animal life science laboratories, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, airline terminals, shipping terminals, public transportation
- Commercial florist and flower shops
 - Basements, cellars, bedrooms, attics, living rooms, porches, foundations, steps, baseboards, window sills, plumbing fixtures

This product may be used on washable hard nonporous surfaces such as:

- Food preparation and storage areas.
- Kitchen equipment such as food processors, blenders, cutlery and other utensils.
- Countertops, Slurppy machines, stovetops, sinks, appliances, refrigerators, ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Enameled surfaces, painted woodwork, Formica, vinyl and plastic upholstery.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large inflatable structures such as animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment.
- Picnic tables and outdoor furniture.
- Telephones and booths
- Highchairs
- Drinking fountains.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowl surfaces, urinals, portable toilets, porcelain tile and restroom fixtures.
- Kennels kennel runs, cages floors, conductive flooring.

This product meets AOAC Use - Dilution Test Standards for hospital disinfectants.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Hepatitis B Virus.

This product is recommended for Poultry Premise Sanitation (Hatcheries)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

This product is recommended for Swine Premise Sanitation:

Farrowing Barns and Areas	Dressing Plants	Blocks
Waters and Feeders	Loading Equipment	Creep Area
Hauling Equipment	Nursery	Chutes

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 medical devices prior to sterilization or high level disinfection.

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Apply this product with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. For sprayer applications, use a coarse mist pump or trigger sprayer. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist.

NOTE: With spray applications, cover or remove all food products. A fresh solution should be prepared at least daily or when use solution becomes visibly dirty. For heavily soiled areas, a preliminary cleaning is required.

DISINFECTION

Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions. For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard non-porous surfaces.

Add 2 ounces of this product to one gallon of water (703 ppm active quat). At this use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

- | | |
|-------------------------------------|--|
| <i>Campylobacter jejuni</i> ✓ | <i>Salmonella choleraesuis</i> ✓ |
| <i>Corynebacterium ammoniagenes</i> | <i>Salmonella schottmuelleri</i> |
| <i>Enterobacter aerogenes</i> | <i>Salmonella typhi</i> ✓ |
| <i>Enterococcus faecalis</i> | <i>Shigella dysenteriae</i> ✓ |
| <i>Escherichia coli</i> ✓ | <i>Staphylococcus aureus</i> ✓ |
| <i>Klebsiella pneumoniae</i> ✓ | <i>Staphylococcus aureus (Methicillin resistant)</i> ✓ |
| <i>Listeria monocytogenes</i> | <i>Streptococcus salivarius</i> ✓ |
| <i>Pseudomonas aeruginosa</i> ✓ | |

Virucidal Performance: At 2 ounces per gallon use level (703 ppm active quat), this product was evaluated in the presence of 5% serum and found to be effective against the following viruses on hard nonporous environmental surfaces.

- | | |
|--|--|
| Avian influenza /Turkey/Wisconsin ✓ | Infectious Bovine Rhinotracheitis virus (IBR) ✓ |
| Canine Distemper | Influenza A2/Japan ✓ |
| Equine Arteritis Virus ✓ | Newcastle disease virus ✓ |
| Hepatitis B Virus (HBV) <i>need data</i> | Porcine Respiratory & Reproductive Virus (PRRSV) ✓ |
| Herpes Simplex Type 1 ✓ | Porcine Rotavirus ✓ |
| HIV-1 (AIDS Virus) | Pseudorabies virus ✓ |
| Infectious Avian Laryngotracheitis ✓ | Transmissible Gastroenteritis (TGE) ✓ |
| Infectious Bronchitis Virus ✓ | Vaccinia virus ✓ |
| <i>Aspergillus niger</i> | <i>Trichophyton mentagrophytes</i> ✓ |

Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions Disinfection Fungicidal and Virucidal Dilution Chart

Ounces of Product	Amount of Water
1/2 ounce	1 quart
1 ounce	1/2 Gallon
2.0 ounces	1 gallon
5.0 ounces	2 1/2 gallons
10.0 ounces	5 gallons
20.0 ounces	10 gallons

At 2 ounces per one gallon (or equivalent use dilution) (703 ppm active quat) in the presence of 200 ppm hard water (CaCO₃) and 100% serum this product was proven to be effective against Hepatitis B Virus with a contact time of 10 minutes.

***KILLS HIV and HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with body fluids in which the surfaces/objects likely to be soiled with blood or body fluids but be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS)

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

Personal Protection: Specific barrier protection items to be used with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

ACCEPTED
FEB 22 2002
Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under Pesticide, Registered under EPA Reg. No. 3058-36

Cleaning Proceed Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

Disposal of Infectious Materials: Blood and other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time: Leave surfaces wet for two minutes with 2 ounces per gallon (or equivalent use dilution) (703 ppm active quat) use solution. This contact time will not control other common types of viruses and bacteria.

Disinfection/Fungicidal/Virucidal Directions: Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist.

Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

Add 2 ounces per gallon (16 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or when use dilution becomes diluted or soiled.

General Deodorization: To deodorize, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat). Allow to air dry.

For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment: It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 7 ounces of this product per gallon of water (or equivalent use dilution) (2,460 ppm quat active).

For Odors Caused by Dogs, Cats and Other Domestic Animals: Use on rugs, floors, walls, tile, cages, crates, litter boxes, mats, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

Fungicidal Activity

At 2 ounces per gallon use-level, (or equivalent use dilution) (703 ppm active quat) this product is effective against *Trichophyton mentagrophytes* (athlete's foot fungus) on inanimate surfaces in the presence of 5% blood serum.

Mold and Mildew Control

At 2 ounces per gallon, (or equivalent use dilution) (703 ppm active quat) this product will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat treatment every seven days or when new growth appears.

To control the growth of mold and mildew on large inflatable nonporous plastic and rubber structures (such as animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment). Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (703 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions: Immerse precleaned barber/salon tools (such as combs, brushes, razors, clipper and trimmer blades, tweezers manicure/pedicure tools and scissors) in a 2 ounces per gallon solution of the product (or equivalent use dilution) (703 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared daily or more often if solution becomes cloudy or soiled.

NOTE: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

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Non-Acid Toilet Bowl Disinfection/Cleaner Directions:

Remove gross filth prior to disinfection

From concentrate:

Add 2 ounces (16 milliliters per liter) to the toilet bowl and mix. Brush thoroughly 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 2 ounces per gallon (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush. For sprayer applications use a coarse spray device.

For heavy duty use:

Empty toilet bowl or urinal and apply 8 ounces per gallon (64 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

Cleaning/Deodorizing Directions:

Add 1 to 4 ounces per gallon (8-32 milliliters per liter) of water to clean and deodorize windows, mirrors and glass surfaces.

Use a coarse spray device. Spray 6-8 inches from surface, rub with sponge or cloth. Do not breathe spray mist.

Ultrasonic Bath Disinfectant Directions: Use this product to disinfect hard (inanimate) nonporous objects compatible with Ultrasonic cleaning units. Pour fresh solution of 2 ounces per gallon of water (or equivalent use dilution) (703 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturer's use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution daily or when solution becomes visible dirty or discolored. **59894-9**

For Disinfecting Fiberglass Bath and Therapy Equipment: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of water (703 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly cleaned, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse. **211-40**

To disinfect food-processing premises: floors, walls and storage areas, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications use a coarse spray device. Before using this product, food products and packaging materials must be removed from area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To disinfect food service establishment food contact surfaces: countertops, appliances, tables add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. For sprayer applications use a coarse spray device.

For use on non-food contact surfaces as a general disinfectant in the brewery industry use 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Follow the Disinfectant directions above.

ACCEPTED
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Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide, registered under
EPA Reg. No. **3838-36**

Directions for Fogging: Dairies, beverage and food processing plants. To sanitize hard nonporous room surfaces as an adjunct to acceptable manual cleaning and disinfecting as described above. 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 cubic feet of room area with a product solution containing 3.5 ounces product to 1 gallon of water (or equivalent use dilution) (1,230 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with a EPA approved food contact sanitizer prior to use. 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 within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**POULTRY (AND SWINE) PREMISE SANITATION
SITE PREPARATION**

The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly clean all surfaces with soap or detergent and rinse with water.

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions: Remove all animals and feeds from premises vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Saturate surfaces with the recommended disinfecting solution for a period of 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 for removing litter and manure. **6178-1**

After application, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse. **6178-1**

HATCHERIES: Use 2 ounces of this product per gallon of water to treat the following hard non-porous surfaces: hatching, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry. **334-372**

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and this product. For sprayer applications, use a coarse mist or spray. Use 2 ounces per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. **61178-1 334-372**

SHOE BATH SANITIZER: Shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in 2 ounces of this product per gallon (16 milliliters per liter) of water solution for 60 seconds prior to entering area. Change the disinfectant solution in the bath daily or sooner if solution appears dirty.

DRESSING PLANT USE: Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution of 2 ounces of this product per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

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FOOD PROCESSING PLANTS USING FOGGING DEVICES

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 3.5 ounces of product to 1 gallon of water (1,230 ppm). Vacate the area of all personnel for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

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 within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

Veterinary Clinics/Animal Life Science Laboratory/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection Directions: For cleaning and disinfecting the following hard nonporous surfaces: Equipment, utensils, instruments, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon of water (or equivalent dilution) (703 ppm active quat) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

FARM PREMISE DISINFECTION DIRECTIONS

For use in Equine, Dairy and Hog Farms.

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

CLEANING AND DISINFECTION

For all general cleaning and disinfection use 2 ounces of this product per gallon of water. Apply this product using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a precleaning step is required. Prepare a fresh solution after each use. For sprayer applications use a coarse spray device.

Disinfecting Potato storage area and equipment: Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

Dairy Cow Application Directions: The udders, flanks and teats of dairy cows can be washed with a solution of 2 ounces of this product per one gallon of warm water. Use a fresh towel for each cow. Avoid contamination of wash solution by dirt and soil. Do not dip used towel back into wash solution. When solution becomes visibly dirty, discard and provide fresh solution.

COMMERCIAL FOGGING USE DIRECTIONS: To clean, disinfect and deodorize hard non-porous surfaces. The step, prepare use solution by adding (mixing) 2 ounces per gallon of water (1:64). For heavy-duty use, add (mix) 8 ounces per gallon of water (1:16).

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, brush, sponge or sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse mist pump or trigger sprayer. Spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray mist.

Treated surfaces must remain wet for 10 minutes. Allow to air dry.

Prepare a fresh solution at least daily or sooner if use solution becomes visibly dirty.

MUSHROOM FARM INDUSTRY USE DIRECTIONS

Site Preparation: The first step in any on going sanitation program should be the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

Disinfection: Use 2 ounces of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

For Heavy Duty Cleaning: When greater cleaning is desired, use 4 ounces of this product per gallon of water. (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

Apply this product only to surfaces that DO NOT come in contact with the crop. DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

WATER DAMAGE RESTORATION

Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use: This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and frame lumber, tackless strip and paneling. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

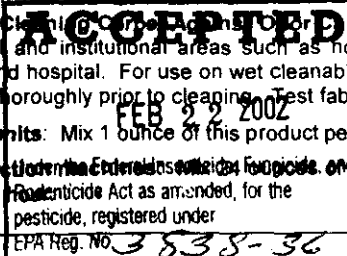
Sewer backup & river flooding: During mitigation procedures, dilute 2-4 ounces of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

Carpets, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling: For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2-4 ounces of the product per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

Special Instructions for Cleaning Carpets Against Odor Causing Bacteria: This product may be used in industrial and institutional areas such as homes, motels & hotel chains, nursing homes, schools and hospital. For use on wet cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness.

For portable extraction units: Mix 1 ounce of this product per gallon of water.

For truck mounted extraction units: Use 4 ounces of this product per gallon of water and meter at 4 gallons per minute.



For rotary floor machines: Mix 2 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

CARPET SANITIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE

6178-1

This product sanitizes the carpet by controlling/reducing the growth of odor-causing bacteria. It can be used in industrial and institutional areas such as homes, motels, hotels chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 1 ounce of product per gallon of water. Follow the Injection and/or Extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 2 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use on washable synthetic fibers. Do not use on wool. Test color fastness of carpet before use. Apply diluted product to a small concealed spot, then rub with a clean white cloth. If color changes or transfers to cloth, a water-based product should not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

Note: This product should not be mixed with other cleaning products.

SMOKE DAMAGE RESTORATION

Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

(Alternative language for bag in the box dispensing equipment)

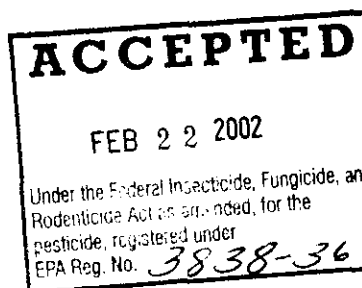
DIRECTIONS FOR BAG-IN BOX CONTAINERS

How to use this package:

This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on the box.

Trigger sprayers: Fill bottle from dispenser. Apply to surfaces according to directions above.

Mop Buckets: Fill bucket from dispenser. Set up "Wet Floor" signs. Mop floor surfaces as specified in directions above.



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FOUR OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL FOR DISINFECTION

(FOR DISINFECTION)

MIX EACH PACKET WITH 2 GALLONS OF WATER

QUAT 44

E.P.A. Reg. No. 3838-36 E.P.A. Est. No. 3838-WI-1

NET CONTENTS: 4.0 FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 2.25%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride 2.25%

INERT INGREDIENTS: 95.50%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN

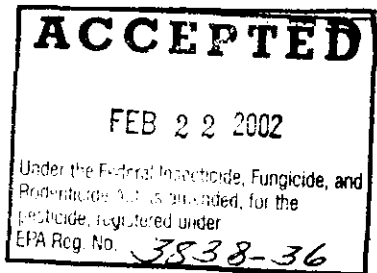
DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

DISPOSAL: Do not reuse container. Wrap and put in trash collection.



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