

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 17 2009

Ms. Elizabeth Tannehill
Regulatory Manager
Mason Chemical Company
721 W. Algonquin Rd.
Arlington Heights, IL 60005

Dear: Ms. Tannehill:

Subject: **Maquat 2420 TNT**
EPA Registration Number 10324-160
Letter Date January 28, 2009
EPA Received Date February 3, 2009

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

Proposed Labeling:

- Adding two new organisms
- New use direction for a waterfree (waterless) urinal
- Correcting certain directions for use

Efficacy:

1. The submitted efficacy data (MRID 476637-01) **support** the use of the product, Maquat 2420 TNT, as a disinfectant with bactericidal activity against Community-Associated Methicillin-Resistant *Staphylococcus aureus* (Genotype 300) on hard, non-porous surfaces in the presence of a 5% organic soil load for a 10-minute contact time. Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. Neutralizer effectiveness testing showed positive growth of the microorganism. Viability controls were positive for growth. Sterility controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

CONCURRENCES

| | | | | | | | |
|----------------|--|--|--|--|--|--|--|
| SYMBOL | | | | | | | |
| SURNAME | | | | | | | |
| DATE | | | | | | | |

2. The submitted efficacy data (MRID 476637-02 and 476637-03) **support** the use of the product, Maquat 2420 TNT, as a disinfectant with virucidal activity against Feline calicivirus (a surrogate for human norovirus) on hard, non-porous surfaces in the presence of at least a 5% organic soil load for a 10-minute contact time. Recoverable virus titers of at least 10^4 were achieved. Cytotoxicity was observed in the 10^{-2} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level. The studies were performed at the same laboratory but under the direction of different study directors. The confirmatory study used one lot of product, not the standard two.

LABEL;

1. The proposed label claims that the product, Maquat 2420 TNT, is an effective disinfectant against Community Associated Methicillin Resistant *Staphylococcus aureus* and Feline calicivirus (surrogate for Norovirus) on hard, non-porous surfaces in the presence of 5% organic soil for a 10-minute contact time. These claims **are acceptable** as they are **supported** by the submitted data.

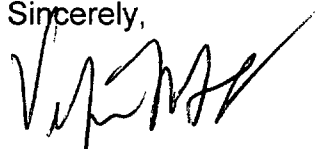
2. Revise the label as follows:

- Change "Community **Associated** Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)" to read "Community **Acquired** Methicillin Resistant *Staphylococcus aureus* (Genotype 300) (CA-MRSA 300)."
- On page 2 of the proposed label (right column), change "**heath** clubs" to read "**health** clubs."
- On page 3 of the proposed label (right column; item #5), change "**tile**" to read "**glazed tile**." Tile is a porous surface.
- On page 3 of the proposed label (right column; item #5) and on page 4 of the proposed label (right column; item #5), change "**porcelain**" to read "**glazed porcelain**." Porcelain is a porous surface.
- On page 3 of the proposed label (right column; item #9), change "**Its'** (This product's)" to read "**Its** (This product's)."
- Under the "Container Handling" section on page 8 of the proposed label (left column, next to last item), change "for recycling **for** available" to read "for recycling **if** available."

General Comments:

Should you have any question or comments concerning this letter, please contact Drusilla Copeland on (703) 308-6224 or Velma Noble on (703) 308-6233.

Sincerely,



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

Enclosure: Efficacy Review approval dated 5/18/09



MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-160

E.P.A. Est. No. 10324-IL-1

MAQUAT® 2420 TNT

Net Contents

Batch No:

**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 inhaled. Harmful if absorbed through the skin. Harmful if swallowed. Avoid breathing spray mist. Do not get into 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, using tobacco or using the toilet. 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.

DO NOT MIX WITH CHLORINE, BLEACH, AMMONIA CLEANERS OR OTHER HOUSEHOLD CHEMICALS.

(Or)

CHEMICAL HAZARDS: NEVER USE WITH CHLORINE PRODUCTS. Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave the area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid.

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

JUN 17 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-160

Bathroom Cleaner Disinfectant
Disinfectant Bowl and Bathroom Cleaner (Showers, Sinks, Tubs, Washrooms, Toilet Bowls)
One-Step Cleaner Disinfectant
Ready-To-Use
Antibacterial, Anti-Microbial
Tub and Tile Cleaner
Cleaner - Disinfectant - Virucide*

ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride0.30%
Alkyl (C₁₄, 50%; C₁₂, 40%; C₁₆, 10%)
dimethyl benzyl ammonium chloride.....0.20%

INERT INGREDIENTS: 99.50%
TOTAL..... 100.00%

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**
See left (back) (side) (right) panel (of label) (below) for additional
precautionary statements and first aid 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.

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

(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)

TRANSPORTATION INFORMATION

DOT Hazard Class: 8, Corrosive

DOT Proper Shipping Name: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGIII

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(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text)

ORGANISM LIST

(Note: For reference use only. This is a list of all organisms covered by this label. Please see appropriate Directions for Use for proper use dilution.)

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage, Food Processing Plants and Other Non-Medical Facilities): 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:

Corynebacterium ammoniagenes (ATCC 6872)
Enterobacter aerogenes (ATCC 13048)
Escherichia coli (ATCC 11229)
Klebsiella pneumonia (ATCC 4352)
Proteus mirabilis (ATCC 9240)
Pseudomonas aeruginosa (ATCC 15442)
Salmonella choleraesuis (ATCC 10708)
Salmonella typhi (ATCC 6539)
Serratia marcescens (ATCC 14756)
Shigella dysenteriae (ATCC 11835)
Staphylococcus aureus (ATCC 6538)
Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)
Streptococcus pyogenes (ATCC 19615)

VIROCIDAL PERFORMANCE: This product was evaluated in the presence of 5% serum and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Human Immunodeficiency virus type 1
Herpes simplex virus type 1
Herpes simplex virus type 2
Feline Calicivirus (surrogate for *Norovirus*)

FUNGICIDAL PERFORMANCE: This product was found to be an effective against the following on hard, non-porous environmental surfaces:

Trichophyton mentagrophytes (ATCC 9533)

MARKETING CLAIMS

Maquat[®] 2420 TNT for use in bathrooms (restrooms) (washrooms) in:

| | |
|---|----------------------------------|
| Hospitals | Nursing homes |
| Medical and dental offices and clinics | Physician offices |
| Medical research facilities | Patient care rooms & facilities |
| Recovery rooms | Emergency Rooms |
| USDA inspected food-processing facilities | Farms (dairy, hog, equine) |
| Poultry and turkey farms | Meat/poultry processing plants |
| EMS & fire facilities | Day care centers and nurseries |
| Home healthcare institutions | Life care retirement communities |
| Restaurants | Bars |
| Cafeterias | Fast food operations |
| Supermarkets | Convenience stores |
| Retail and wholesale establishments | Department stores |
| Shopping malls | Gift shops |
| Video stores | Bookstores |
| Laundry mats | Auto repair centers |
| Food establishments | Coffee shops |
| Donut shops | Bagel stores |

| | |
|-------------------------------|--------------------------------|
| Pizza parlors | Liquor stores |
| Funeral homes | Police stations |
| Courthouses | Municipal government buildings |
| Prisons | Jails |
| Penitentiaries | Correctional institutions |
| Bus stations | Train stations |
| Laboratories | Factories |
| Business and office buildings | Hotels and motels |
| Transportation terminals | Public restrooms |
| Travel rest areas | Institutions |
| Dormitories | Schools |
| Colleges | Churches |
| Community colleges | Universities |
| Athletic facilities | Locker rooms |
| Exercise rooms | Gyms, and gymnasiums |
| Health clubs | Health spas |
| Massage/facial salons | Hair/nail/pedicure salons |
| Barber/beauty shops (salons) | Tattoo parlors |
| Museums | Art galleries |
| Post offices | Performance/theater centers |
| Banks | Libraries |
| Movie houses | Bowling alleys |
| Campgrounds | Recreational facilities |
| Picnic facilities | Public parks |
| Sports arenas, | Sports complexes |
| Stadiums | Veterinary clinic |
| Zoos | Pet shops |
| Automotive garages | Boats |
| Ships | Campers |
| Mobile homes | Buses |
| Trains | Airplanes. |
| Cruise lines | Airline terminals |
| Public transportation | |

BATHROOM (RESTROOM) (WASHROOM) CLAIMS:

Removes rust, soap scum, calcium deposits, all hard water stains.

Easily removes soap scum, hard water stains, and dirt.

Specially formulated to attack soap scum, hard water stains and dirt.

Cuts through tough soap scum (fast).

Dissolves tough soap scum on contact.

Prevents (odors) (dirt) (soap scum) (build up).

Tough on Soap Scum.

This product will not leave a grit or soap scum.

With all the news about germs and bacteria, just looking clean isn't good enough. This product does it all – cleans, disinfects and deodorizes your bathroom and toilet bowl, even under the rim.

This product is a combination of effective cleaners, plus antibacterial disinfectants, so you can be sure your bowl (bathroom) is completely clean.

Effective. Cleans, shines and disinfects washable bathroom (restroom) surfaces and fixtures around the home, in schools, hospitals and other health care facilities and other public places. Disinfects as it cleans.

Cleans and shines many surfaces outside the washroom (bathroom) (restroom) area.

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(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text).

This product is a cleaner, disinfectant and fungicide designed for daily use on all bathroom surfaces.

This product is an acid disinfectant bathroom toilet bowl (tub & tile) (shower) cleaner, especially formulated to kill many germs commonly found in hospital and industrial environments. This product contains a high level of acid together with an acid compatible detergent system, which facilitates the easy removal of resistant stains and permits disinfectant action.

Leaves the whole bathroom smelling fresh and clean.

Leaves toilet bowl sparkling clean.

Efficacy tests have demonstrated it to be an effective one-step toilet bowl (tub & tile) (shower) cleaner, disinfectant, and fungicide in the presence of organic soil (5% blood serum).

This product is designed to clean, disinfect and deodorize toilet bowls and urinals.

This bowl cleaner is an effective cleaner, fungicide and disinfectant against odor causing bacteria.

Is an effective general purpose bowl cleaner and disinfectant against odor causing bacteria.

Cleans entire bowl.

With daily use, (this product) (insert product name) will keep your shower clean.

Combines cleaning, disinfecting, and stain removal in one product. Cleans, removes stains and kill germs.

Disinfects, cleans away hard stains and rust.

Cleans the stains you see and the germs you can't.

Freshens toilet bowl.

Regular use of this product keeps toilet bowls sparkling white.

This product is excellent for brightening colored toilet bowls.

Whitens bowl.

Dissolves porous lime deposits and urine stains.

Removes bowl ring build up.

Removes hard water stains.

Resists hard water build-up.

Removes lime deposits.

Removes tough, stubborn stains.

Penetrates, breaks up and dissolves stains.

Dissolves stains.

Dissolves tough dirt (stains).

Eliminates tough grime (stains) and germs (bacteria).

The cationic detergent system of this product inhibits the acid corrosion of metal parts found around toilets bowls and urinals.

Effective formula kills many germs and quickly eliminates toilet rings, hard water stains, mineral deposits and rust stains, plus leaves a light fresh scent. Will not harm plumbing and septic tanks.

A mild all-purpose cleaner that combines detergent and wetting agents coupled with a phosphoric acid base. Eliminates rust, lime, organic deposits and offensive odors.

For use in toilets (and) (or) (tub & tile) (shower) (dressing rooms) of food processing plants operating under USDA poultry, meat, rabbit, shell egg grading, and egg products inspection program.

For use in toilet bowls and urinals.

Recommended for use in hotels and motels, office buildings, schools, public buildings, restaurants or any commercial, institutional, or industrial building with lavatory facilities.

Cleans and disinfects entire bathroom (restroom) (washroom) including: showers, sinks, counters fixtures, tubs, floors, walls, exterior surfaces of toilets, tile, chrome, and porcelain. DO NOT USE ON MARBLE.

For all hard, non-porous environmental washroom surfaces.

Deodorizes – Freshens – No stale washroom odors.

For all washroom surfaces such as washbowls, bathtubs, chrome fixtures, glazed tiles, shower stalls, exterior toilet surfaces, walls, floors, finished woodwork, mirrors.

Its' (This product's) (insert product name) deep cleaning action penetrates tough soils including body oils and soap scum, yet it contains no harsh abrasives.

GENERAL (HOUSEHOLD) (OTHER) (BATHROOM) (RESTROOM) (WASHROOM) CLAIMS:

Leaves a brilliant shine and a fresh, clean scent.

Leaves (your) (the) bathroom in (insert use site) with a fresh and clean scent.

This product is a clear, (blue) (red) (yellow) (green), viscous liquid and has a distinctive, fresh fragrance.

Fresh Clean Scent.

Leaves a clean fresh scent.

Combination of cleaning and freshening.

Leaves surfaces nice and shiny.

This product thoroughly cleans, shines, disinfects and deodorizes.

With this product you can be sure your home doesn't just look clean, it's microscopically clean.

This product does it all – cleans, shines, deodorizes and disinfects for a complete clean.

Cleans without leaving a dull residue behind.

Cleans without bleaching.

This product is a versatile and convenient disinfectant, cleaner for most washable, hard, non-porous surfaces.

An outstanding clean without irritating fumes or odors.

Cleans and disinfects without harsh fumes.

Cleans on contact.

Antibacterial Cleaning Power.

Removes (and) (or) cleans on hard, non-porous surfaces: Dirt, Grease, Grime, Food stains, Soap scum, Fingerprints, Tough soils, Crayon/pencil marks, Heel marks, Bathtub ring, Beverage stains, Outdoor grime, Cosmetics.

When used as directed, this product cleans, disinfects and deodorizes in one easy step.

(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text).

Disinfects as it clean.

Cleans off water spots.

When used as directed, this is a powerful cleaner, deodorizer and killer of dangerous (troublesome) bacteria.

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

Antibacterial.

Kills common household bacteria such as *Staphylococcus aureus* (Staph), *Salmonella choleraesuis* (*Salmonella*), and *Escherichia coli* (*E. coli*).

When used as directed, this product exhibits effective disinfection against *Pseudomonas aeruginosa* (*Pseudomonas*), *Staphylococcus aureus* (Staph), and *Salmonella choleraesuis* (*Salmonella*), in addition to preventing odors caused by microorganisms.

Kills *Pseudomonas aeruginosa* (*Pseudomonas*), *Staphylococcus aureus* (Staph), and *Salmonella choleraesuis* (*Salmonella*).

Kills HIV-1 (associated with AIDS).

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

(OR)

This product is a one-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal* and fungicidal, and inhibits odors when used as directed.

This product is an effective germicide disinfectant (containing 5000 ppm of active quaternary germicides making it) effective against a wide spectrum of microorganisms.

This product destroys many odors as it disinfects.

Stops odors right at the source by killing odor causing bacteria.

This product maximizes (improves) labor results by effectively controlling odors.

Absorbs odors.

Quickly eliminates rust, lime and uric acid deposits.

Leaves no streaks.

For the dirt you can see and the household germs you can't.

Repels dirt.

Attacks grime and germs.

Resists build up.

Is non-caustic.

Will not harm bacteria action of septic tanks.

Contains no abrasives, so it can't scratch surfaces.

Does not scratch surfaces.

Clings to surfaces.

Is not hard to rinse.

Convenient ready to use formulation requires no premixing (diluting).

Great for use in (insert use sites).

Great for use on hard, non-porous surfaces located in (insert use sites).

Perfect for use on (insert surfaces) in (insert use sites).

Effective disinfectant in the presence of 5% serum contamination.

For use on the following hard, non-porous surfaces:

Glazed ceramic bathroom tile, sinks, toilet bowls and surfaces, garbage cans, bathtubs, shower stalls, chrome and clear acrylic plastic fixtures, porcelain, Formica®, glazed ceramic tile floors.

For other hard, inanimate surfaces, spot test in an inconspicuous area.

For disinfecting floors, walls, countertops, bathing areas, lavatories, garbage pails and other hard, non-porous surfaces.

DIRECTIONS FOR USE

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

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, an Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage, Food Processing Plants and Other Non-Medical Facilities): Using EPA approved test methods for germicides (under Good Laboratory Practices (GLP), in 5% organic soil and a 10-minute contact time this product kills the following:

(Or)

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces, toilets and urinals, modified in the presence of 5% organic soil with a ten-minute contact time against the following organisms:

(Or)

Effective against:

Corynebacterium ammoniagenes

Enterobacter aerogenes

Escherichia coli

Klebsiella pneumoniae

Proteus mirabilis

Pseudomonas aeruginosa

Salmonella choleraesuis

Salmonella typhi

Serratia marcescens

Shigella dysenteriae

Staphylococcus aureus

Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)

Streptococcus pyogenes

Virucidal* Performance: This product was evaluated and found to be effective in the presence of 5% organic soil against the following viruses on inanimate, hard, non-porous environmental surfaces of toilets and urinals. Treated surfaces must remain wet for 10 minutes. For heavily soiled areas, a preliminary cleaning is required.

(Or)

Virucidal* Performance: This product was evaluated in the presence of 5% organic soil with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces of toilets and urinals:

(Or)

This product was evaluated in the presence of 5% organic soil with a 10-minute contact time and found to be effective against the following viruses:

(Or)

Effective Against:

Human Immunodeficiency Virus type 1
Herpes simplex virus type 1
Herpes simplex virus type 2
Feline Calicivirus (surrogate for Norovirus)

FUNGICIDAL ACTIVITY: This product was evaluated in the presence of 5% organic soil with a 10-minute contact time and found to be effective against the following:

Trichophyton mentagrophytes (ATCC 9533)

For General Disinfection: Remove heavy soil and gross filth prior to disinfecting. Apply with a cloth, mop or mechanical spray device and thoroughly wet surface for 10 minutes. Do not allow to dry on surface. Rinse thoroughly with water.

To Disinfection (and Deodorize): Pre-clean first to remove gross filth and heavy soil. (Apply) (Spray) (product) (solution) until thoroughly wet. Let stand 10 minutes. Then wipe. Do not allow to dry on surface. Rinse thoroughly with water. For heavily soiled areas, a pre-cleaning is required.

HOSPITAL/HEALTH CARE/INSTITUTIONAL

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following FDA/EPA Memorandum of Understanding statements must be used.)

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.

(Or)

This product is not for use on Medical device surfaces.

INSTITUTIONAL DISINFECTANT/VIRUCIDAL* DIRECTIONS (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, 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 minute. For sprayer applications, use a coarse spray pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

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

***KILLS HIV 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 and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type I (HIV-1) (associated with AIDS).

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

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

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of 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 surface wet for 10 ten minutes with undiluted solution.

SURGICAL INSTRUMENT PRESOAK: Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure.

Note: Plastic instruments can remain immersed until ready to use. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments. Sterilization of all instruments must take place before using.

ULTRASONIC BATH DISINFECTANT/FUNGICIDAL DIRECTIONS: Use this product to disinfect hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution (1 to 2 ounces) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection). Replace solution at least daily or when solution becomes visible dirty or discolored.

FOR DISINFECTING HARD, NON-POROUS BATH AND THERAPY EQUIPMENT: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add 1 to 2 ounces of this product 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 (*Alternate statement:* Treated surfaces must remain wet for 10 minutes for proper disinfection). After the unit has been thoroughly disinfected, drain solution from the unit and rinse any/all cleaned (disinfected) surfaces with fresh water. The unit is ready for reuse.

RESTROOM/BATHROOM

TOILET BOWL (AND URINAL) (& BATHROOM) DISINFECTION/ CLEANER DIRECTIONS

Remove gross filth prior to disinfection.

Empty toilet bowl and apply solution to exposed surfaces including under the rim with a cloth, mop, sponge, brush or swab thoroughly and allow to stand for 10 minutes and flush.

(Or)

General Cleaning Toilet Bowl: Apply (Open cap) (Squeeze gently, direct) bowl cleaner (solution) (product) under the rim and on sides of bowl (inside only). Brush clean and flush toilet. (Close cap). Rinse brush with clean water.

(Or)

To Clean Waterfree (Waterless) Urinals: Remove any debris from the bowl. Spray (product name) onto urinal surface. DO NOT spray product directly onto cartridge. Wipe surface to clean. Change cartridge as needed.

(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text).

Deep Cleaning/Disinfecting Waterfree (Waterless) Urinals: Remove and properly dispose of cartridge according to manufacturer's directions. Deep clean or disinfect the entire urinal by applying 1 to 2 ounces of this product directly onto surface. Brush (scrub) surfaces and let solution stand for 10 minutes. Dry surface with a soft cloth. Do not pour excess or soiled water down waterless urinal trap.

(Or)

To Clean and Disinfect: Flush toilet and use toilet mop to push water from the bowl over the trap. Press swab mop against bowl to remove excess water then saturate mop with 1 to 2 ounces of this product while holding bottle and mop applicator over bowl. Swab bowl completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely.

(Or)

To Disinfect Toilet Bowls, Urinals: Remove gross filth and heavy soil. Swab area and remove gross filth and heavy soil. Flush and remove as much water as possible. Apply undiluted solution with swab and wipe around inside of bowl, urinal, including under the rim, on the sides and into the water. Wet thoroughly, allow to remain wet 10 minutes. Flush. Do not allow to dry on surface.

(Or)

To Disinfect Toilet Bowls: Remove water from bowl. Apply (Squeeze) 1 to 2 ounces of bowl cleaner onto bowl brush. Clean entire unit, especially under the rim at water outlets. Allow to remain 10 minutes. Flush and rinse bowl brush with clean water. A preliminary cleaning step is required for the removal of heavy soil prior to disinfection.

(Or)

To Disinfect Toilet Bowls: Flush to remove heavy soil. To clean, simply squirt at least two ounces of this product under the rim and around sides. Allow it to stand several minutes. Then scrub entire surface (especially under the rim) with a bowl mop, flush and rinse. To disinfect use toilet mop to push water from the bowl over the trap. Squirt at least two ounces of this product under the rim and around sides. Allow solution to remain in the bowl for 10 minutes after scrubbing. Flush and rinse.

(Or)

To Disinfect Toilet Bowls :

1. Remove gross filth and heavy soil deposits.
2. With swab applicator, remove water from bowl by forcing water over the trap.
3. Press swab applicator against side of bowl to remove excess water.
4. Apply 1 to 2 ounces of this product to swab applicator, cloth, mop, sponge or directly to surface.
5. Swab entire surface area especially under the rim.
6. Allow entire surface to remain wet for ten (10) minutes.
7. Flush toilet and rinse swab applicator thoroughly.

(Or)

To Clean and Disinfect Urinals: Flush to remove heavy soil. Remove screens and strainers. Squirt at least two ounces of this product around edges and top and allow to flow down over surfaces. Allow it (solution) to stand several minutes before scrubbing, then flush and rinse. To disinfect, allow solution to remain in urinal at least 10 minutes after scrubbing.

(Or)

To Disinfect Urinal:

1. Remove gross filth and heavy soil deposits.
2. Apply product directly to urinal surfaces including water outlets area for general cleaning.
3. Pour an additional (1) ounce of product on applicator.
4. Clean entire unit especially under rim at water outlets with applicator.
5. Remove screen trap to deodorize drain and apply 1 ounce directly on edge and into drain.

6. Wait 10 minutes, flush and rinse applicator.

To (Clean) (Remove) (Stubborn Stains) (Urine stains), (porous Lime deposits) or (Scale) on Toilets: Apply directly on stain. Let it remain at least 15 minutes. Scrub then flush. Repeat if necessary.

(Or)

To (Clean) (Remove) Stubborn Stains (Urine stains), (porous Lime deposits) or (Scale): Follow Disinfection directions, then apply more product to stained areas. Let stand for 15 minutes, brush and flush. Repeat if necessary. Do not allow to dry on surface.

To Disinfect Tubs, Shower Stalls, Sinks, Faucets: Swab area and remove gross filth and heavy soil. Stream undiluted solution onto surface to be cleaned or apply with cloth or sponge to wet all surfaces thoroughly and allow to remain wet for at least 10 minutes. Wipe around with damp cloth or sponge. Do not allow to dry on surface. Rinse thoroughly with water.

(Or)

FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE, OPEN AREAS WITH FLOOR DRAINS:

1. Pre-clean heavily soiled areas.
2. Apply this product to floors, walls and ceilings. To disinfect, all surfaces must remain wet for 10 minutes.
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

Note: Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

To Clean/Remove Soap Scum: Spray product onto soils and wipe clean (with a dry paper towel or lint-free cloth) – Or – Just spray on and wipe off (with a dry paper towel or lint-free cloth. No scrubbing or rinsing necessary. For best results, use a dry paper towel or lint-free cloth. Repeat for heavily soiled areas. For stubborn stains or heavily soiled areas or tougher jobs, allow product to penetrate (dirt and/or soap scum) before wiping. For best results, use regularly to prevent dirt and soap scum build up.

To Clean Tough Stains: Squeeze directly onto tough stains and/or surface, or onto damp sponge. Rub (to wet all surfaces thoroughly). Rinse or wipe clean.

FUNGICIDAL/DEODORIZATION / MOLD & MILDEW

FUNGICIDAL PERFORMANCE:

Trichophyton mentagrophytes (ATCC 9533)

FUNGICIDAL ACTIVITY: This product is effective against *Trichophyton mentagrophytes* (athlete's foot fungus) (a cause of Ringworm) (a cause of Ringworm of the foot) on inanimate surfaces in the presence of 5% blood serum in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Saturate surfaces with this product. Treated surfaces must remain wet for 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears.

OTHER USES

DISINFECTION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:

After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 1 to 2 ounces of this product at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the

(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text).

solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

DIRECTIONS FOR ALTERNATE CONTAINERS

To Open Child Resistant Cap: (Use fingernail or coin to) Pull back and push down rearmost ridge of spout. Push spout down following use.

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.

REFILLS

To Refill Product from Large Containers into Smaller Containers:

This product may be used to fill and refill clean, properly labeled application containers for use elsewhere within your facility.

1. Make sure the small, ready-to-use container has been cleaned, dried and properly labeled. Also make sure other items (such as trigger spray tubes and heads, and funnels) are properly cleaned and dried.
2. To refill, simply pour (or pump product) from the larger container directly into the smaller, being careful not to spill any product.
3. Keep both containers sealed when not in use.

(Or)

Refill Instructions: Fill (trigger sprayer) (or) (pistol grip sprayer) with (this product) (product name) undiluted. (This product) (product name) is ready to use.

= 10

(Note to Reviewer: Text appearing in parenthesis or brackets is done to show optional text).

(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 and 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

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

(Note to Reviewer: The following statements should be considered as alternate statements at this time. However, they will be required on the label after 8/16/10 per the Container Standard Regulations. We are including the statements for review at this time because our customers are inquiring whether they can make these statements on their labels now.)

(OR)

STORAGE AND DISPOSAL

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

(For Use On Non-Refillable Containers With Household/Residential Uses)

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

PESTICIDE DISPOSAL/CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Wrap and put in trash or offer for recycling if available.

Batch Code: (Can be placed on container or label)

(FOR USE ON NON-REFILLABLE CONTAINERS WITH NO HOUSEHOLD/RESIDENTIAL USES)

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 HANDLING: Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Triple rinse (or equivalent). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling for available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

RESIDUE REMOVAL INSTRUCTIONS: (For containers less than one gallon)

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

RESIDUE REMOVAL INSTRUCTIONS: (For containers greater than one gallon)

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

BATCH CODE: (Can be placed on container or label)

(FOR USE ON REFILLABLE CONTAINERS)

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

CONTAINER HANDLING: Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

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.

RESIDUE REMOVAL INSTRUCTIONS: Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.