



Quat Disinfectant Cleaner Concentrate 5

Technical Data

November 2007 Version 3

Description:

3M™ Quat Disinfectant Cleaner Concentrate is a concentrated product to be diluted and dispensed using the 3M™ Twist 'n Fill™ Cleaning Chemical Management System.

3M™ Quat Disinfectant Cleaner Concentrate is a concentrated, one-step, hospital use disinfectant cleaner that is effective against a broad spectrum of bacteria (virucidal* including Hepatitis B, Hepatitis C, and HIV-1, the AIDS virus), fungicidal and inhibits the growth of mold and mildew and their odors when used as directed.

This product meets AOAC efficacy standards for hospital disinfectants and is a proven "one-step" disinfectant - cleaner - fungicide, mildewstat - virucide* which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.

This product is a heavy duty disinfectant cleaner that cleans, disinfects and deodorizes in one labor saving step.

Applications:

Use as a disinfectant on washable hard, nonporous surfaces in:

- Hospitals, nursing homes, healthcare facilities and medical and dental offices
- Schools, exercise facilities, locker rooms, showers and public rest rooms
- Restaurants, bars, institutional kitchens and food processing plants
- Veterinary clinics, kennels, pet shops and farms

Packaging:

Concentrate:

2-liter bottle
6 bottles per case

Each 2-liter bottle yields
127 ready-to-use gallons (typical yield)

General Use Directions:

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

Refer to ready-to-use MSDS for personal protective equipment (PPE) recommendations.

Dispense 3M™ Quat Disinfectant Cleaner Concentrate using the 3M™ Twist 'n Fill™ System dispenser into a properly labeled bottle or mop bucket.

Bactericidal Stability of use-dilution:

Tests confirm that the use-dilution of this product, when stored in a sealed container such as a spray bottle, remains effective for up to 1 year. If product becomes visibly dirty or contaminated the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

Disinfection/Virucidal*/Fungicidal/Mold and Mildew Control

Directions: Apply use-solution to hard, non-porous surfaces, thoroughly wetting the surface with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth. Sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required.

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

Rinse all surfaces that come in contact with food such as countertops, exterior of appliances, tables and stovetops, with potable water before reuse. Do not use on utensils, glassware and dishes.

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

This product may be used to pre-clean or decontaminate critical or semi-critical devices prior to sterilization or high-level disinfection.

*KILLS HIV-1, HBV & HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES OR OBJECTS PREVIOUSLY SOILED WITH BLOOD OR BODY FLUIDS

in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with the blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV), or Hepatitis C Virus (HCV).

Special instructions for cleaning and decontamination of HIV, HBV and HCV on surfaces or objects soiled with blood or body fluids:

Personal Protection: Clean-up must always be done wearing protective gloves, gowns, masks and eye protection.

Cleaning Procedure: Blood and other body fluids containing HIV or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of this product.

Disposal of infectious material:

Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

Toilet Bowl Disinfectant & Cleaning Directions:

Remove gross filth prior to disinfection. Empty toilet bowl or urinal and apply use-solution to exposed surfaces and under the rim with a cloth, mop, sponge, or mechanical spray. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

To Clean & Deodorize: Apply use-solution to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow surfaces to air dry.

For Fungicidal Activity:

3M™ Quat Disinfectant Cleaner is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

Veterinary Practice / Animal Care / Animal Laboratory / Zoos / Pet Shop / Kennels Disinfection /

Virucidal Directions: For cleaning and disinfection of hard nonporous surfaces: equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, 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 traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution for a period of 10 minutes. Wipe or allow to air dry. Immerse all animal handling and restraining equipment as well as forks, shovels, and scrapers used to remove litter and manure. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate building and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

Farm Premise Use: Remove all animals and feed from premises,

vehicles and enclosures. Remove all litter 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. Saturate all surfaces with a use-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. Ventilate buildings, cars, boats and other closed spaces, Do not house livestock or employ equipment until treatment has been absorbed, set or dried, Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Contact Time: Leave surface wet for 1 minute (60 seconds) for HIV-1 and 10-minute for HBV and HCV with use-solution. Use a 10 minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

Efficacy:

When diluted and dispensed using the 3M™ Twist 'n Fill™ System dispenser and used according to directions contained on the product label, 3M™ Quat Disinfectant Cleaner is effective against the following organisms.

Bacteria

Acinetobacter baumannii
Brevibacterium amoniagenes
Campylobacter jejuni
Enterobacter aerogenes
Enterococcus faecalis
(Enterococcus)
Enterococcus faecalis – VRE
(Vancomycin-Resistant)
ESBL Escherichia coli –
(Extended spectrum beta-lactamase producing E.coli)
Escherichia coli (E. Coli)
Klebsiella pneumoniae
Legionella pneumophila
Pseudomonas aeruginosa
Pseudomonas cepacia
Salmonella enterica (Salmonella)
Salmonella schottmuelleri
Salmonella typhi
Serratia marcescens
Shigella dysenteriae
Staphylococcus aureus (Staph)
Staphylococcus aureus – MRSA
(Methicillin Resistant)

Staphylococcus aureus – Multi-Drug Resistant

Staphylococcus aureus – VISA
(Vancomycin Intermediate Resistant)

Streptococcus pyogenes (Strep) Vibrio cholerae

Viruses

*Herpatis B Virus (HBV)
*Hepatitis C Virus (HCV)
*Herpes Simplex Virus Type 1
*Herpes Simplex Virus Type 2
*HIV-1 (AIDS virus)
*Human Coronavirus
*Influenza Type A/Brazil
*Norwalk virus (Feline Calicivirus)(Norovirus)
*Respiratory Syncytial Virus (RSV)
*SARS Associated Coronavirus [cause of Severe Acute Respiratory Syndrome]
*Vaccinia (Pox Virus)

Animal Viruses

Avian Influenza (H3N2)
Avian Infectious Bronchitis Virus
Canine Distemper Virus
Feline Calicivirus
Newcastle's Disease Virus
Pseudorabies Virus

Fungi

Aspergillus niger
Trichophyton mentagrophytes
(the Athlete's Foot Fungus)
Trichophyton mentagrophytes
(a cause of Ringworm)

Product Specifications:

(Typical Values)

Active Ingredients:

Octyl decyl dimethyl ammonium chloride 6.510%
 Dioctyl dimethyl ammonium chloride 2.604%
 Didecyl dimethyl ammonium chloride 3.906%
 Alkyl (C₁₄ 50%, C₁₂ 40%, C₁₆ 10%) dimethyl benzyl ammonium chloride 8.680%
 Inert ingredients 73.800%

EPA Registration:

EPA Reg. No. 6836-78-10350

Concentrate:

1. pH: 12.6
2. Flash Point: 133°F
3. Solubility in water: Complete
4. Specific Gravity: 1.0
5. Viscosity: <100 Centipoise
6. Appearance: Clear, light green liquid
7. Fragrance: Mild

Ready-to-Use:

1. pH: 9.6
2. Flash Point: N/A
3. Solubility in water: Complete
4. Specific Gravity: 1.0
5. Viscosity: <100 Centipoise
6. Appearance: Clear to light green
7. Fragrance: Mild

Precaution Summary**Concentrate:**

Eye Contact: Corrosive to eyes
 Skin Contact: Corrosive to skin
 Inhalation: Upper respiratory irritant & central nervous system depression.

Ready-to-Use:

Eye Contact: Mild eye irritant
 Skin Contact: Mild skin irritant
 Inhalation: Upper respiratory irritant

Note:

Refer to product Material Safety Data Sheet (MSDS: Concentrate 17-9553-3, Ready-to-use 17-9600-2) for specific health hazard, first aid and precautionary information

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Important:

The information provided in this report is believed to be reliable; however, due to the wide variety of intervening factors, 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.

**Building and Commercial Services Division**

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