



# Quat Disinfectant Cleaner Concentrate

## Product No. 5

### Technical Data

January 2007

#### 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.

This product is a cleaner, disinfectant, fungicide, virucide\* and provides mold and mildew control when properly diluted and used according to label directions.

3M™ Quat Disinfectant Cleaner Concentrate is a one-step, low-level, hospital use disinfectant cleaner. The ready-to-use product contains 848 ppm quat, and at that level is effective against a broad spectrum of bacteria. The product is 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. The product is Bactericidal according to the current AOAC use-dilution test method and virucidal\* according to the virucidal qualification modified in the presence of 400 ppm hard water plus 5% organic serum.

This product is a disinfectant that cleans, disinfects & deodorizes in one labor saving step.

#### Applications:

Use on washable, hard, nonporous surfaces in:

- Hospitals, nursing homes, healthcare facilities and medical and dental offices
- Schools, exercise facilities, locker rooms, showers and restrooms
- 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

#### 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 Twist 'n Fill™ dispenser into a properly labeled bottle or mop bucket. Once dispensed, the product has a 60-day shelf-life when stored in a closed container.

#### Disinfection/Virucidal\*/ Fungicidal/Mold and Mildew

**Control Directions:** Apply ready-to-use solution to hard, non-porous surfaces, thoroughly wetting the surface with a cloth, mop, sponge or sprayer. Treated surfaces should remain wet for 10 minutes. If using a spray application use a coarse spray setting and avoid breathing the spray.

For heavily soiled areas, a pre-cleaning step is recommended prior to applying disinfectant.

Rinse all food contact surfaces, such as countertops, appliances, tables and stovetops, with potable water before reuse. This product should not be used to clean 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 with blood or body fluids, and in which the surfaces or 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 should always be done wearing protective gloves, gowns, masks and eye protection.

**Cleaning Procedure:** Blood and other body fluids 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 ready-to-use solution to exposed surfaces and under the rim with a cloth, mop, sponge, or mechanical spray. Allow to stand for 10 minutes and flush.

**Cleaning & Deodorizing Directions:** Apply ready-to-use solution to hard nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer. Wipe or allow surfaces to air dry.

**Fungicidal Directions:** When diluted and dispensed using the 3M™ Twist 'n Fill™ system, and used according to directions contained on the product label 3M™ Quat Disinfectant Cleaner is effective against Trichophyton mentagrophytes (the athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

**Contact Time:** Use a 10-minute contact time for disinfection against viruses, bacteria and fungi claimed. After required contact time, surface may be rinsed, wiped dry or allowed to air-dry.

#### **Efficacy:**

When diluted and dispensed using the 3M™ Twist 'n Fill™ 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 cholerasuis  
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 [Norovirus]  
\*Respiratory Syncytial Virus (RSV)  
\*SARS Associated Coronavirus [cause of Severe Acute Respiratory Syndrome]  
\*Vaccinia (Pox Virus)

#### Animal Viruses

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 (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%) dimethyl benzyl ammonium chloride 8.680%

#### **EPA Registration:**

EPA Reg. No. 6836-78-10350  
EPA Est. No. 33915-MI-001

#### **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.

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