



## Technical Data

# 3M™ HB Quat Disinfectant Cleaner Concentrate

### Description

3M™ HB Quat Disinfectant Cleaner 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 a Hospital Use Disinfectant at 0.35 ounces per gallon modified in the presence of 300 ppm hard water (calculated as CaCO<sub>3</sub>) and in the presence of organic soil (5% blood serum) for a contact time of 10 minutes.

When diluted appropriately, the ready-to-use solution contains 708 ppm quat.

### Applications

Use on washable, hard, non-porous environmental non food contact surfaces such as floors and walls in:

- Hospitals, surgi-centers, nursing homes, doctor and dentist offices
- Schools, health clubs, spas, restrooms, and shower rooms
- Veterinary clinics and dairies
- Restaurants, bars and food processing plants

### Packaging

#### 3M™ HB Quat Disinfectant Cleaner Concentrate

This concentrate is diluted 1:365 (0.35 ounce per gallon).

- 55-gallon containers
- 1-gallon bottles
  - 4 bottles per case

### Directions for Use

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

**Note: This document is for reference only; refer to the primary bottle label for official directions for use and efficacy claims.** Dilute 3M™ HB Quat Disinfectant Cleaner concentrate 1:365 (0.35 ounce per gallon of water) into a properly labeled bottle or mop bucket.

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.

#### BACTERICIDAL STABILITY OF USE-DILUTION

Tests confirm that this product, when diluted in 400 ppm hard water and in the presence of 5% soil load, remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Salmonella enterica* for up to one year when stored in a sealed container at room temperature.

If the use-dilution product becomes visibly dirty or contaminated, the use-dilution must be discarded and a fresh product prepared. Always use clean, properly labeled dry containers when diluting the product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails. Use-dilution product in

open containers must be prepared daily or more often if the solution becomes visibly dirty or diluted or contaminated.

#### Disinfection/Fungicidal\*/Virucidal\* Directions

Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces 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 and rub with brush, sponge or cloth. Do not breathe spray.

Add 0.35 ounces per gallon of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

**KILLS HIV-1, HCV & HBV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is a likelihood of soiling inanimate surfaces/objects with blood or body fluids, and in which the surfaces or objects likely to be soiled with body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis C Virus (HCV) and Hepatitis B Virus.

#### NOTE:

Refer to product Material Safety Data Sheet for specific physical properties, health hazard, first aid and precautionary information.

#### 3M™ HB Quat Disinfectant Cleaner Concentrate MSDS:

- 18-1457-3 (Concentrate)

**Special instructions for cleaning and decontamination against HIV-1, HCV and HBV of 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 protective 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 Material** – Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state, and local regulations for infectious waste disposal.

**Contact Time** – Leave surface wet for 30 seconds for HIV-1 and 10 minutes for HCV and HBV. The contact time for the viruses, fungi bacteria listed on this label is 10 minutes, except for Polio virus Type 1 (Chat strain), which is 30 minutes.

**General Deodorization:** To deodorize, add 0.35 ounces of this product per gallon of water (or equivalent use dilution of 1:365). Excess material must be wiped up or allowed to air dry. When used as directed, this product will deodorize surfaces in restroom and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

**Disinfection Performance:**

At 0.35 ounces of this product to one gallon of water use level, this product is bactericidal and fungicidal on hard inanimate surfaces modified in the presence of 5% organic serum with a 10-minute contact time against:

**Isolates From AIDS Patients**

Aspergillus niger  
Candida albicans  
Cryptococcus neoformans  
Pseudomonas aeruginosa  
Staphylococcus aureus  
Streptococcus pneumoniae

**Gram Positive Clinical Isolates**

Enterococcus faecalis  
Micrococcus luteus  
Staphylococcus aureus  
Staphylococcus aureus (Toxic shock)  
Staphylococcus epidermidis  
Staphylococcus saprophyticus  
Streptococcus haemolyticus  
Streptococcus pyogenes

**Gram Negative Clinical Isolates**

Acinetobacter calcoaceticus var. anitratus  
Acinetobacter calcoaceticus var. Iwoffii  
Bordetella bronchiseptica  
Brevundimonas dimunita  
Burkholderia cepacia  
Enterobacter agglomerans  
Enterobacter cloacae  
Enterobacter gergoviae  
Enterobacter liquefaciens  
Escherichia coli (Urinary)  
Escherichia coli (Wound)  
Flavobacterium meningosepticum  
Hafnia alvei  
Klebsiella oxytoca  
Klebsiella pneumoniae  
Morganella morganii  
Proteus mirabilis  
Proteus vulgaris  
Pseudomonas aeruginosa  
Pseudomonas fluorescens  
Pseudomonas pseudomallei  
Pseudomonas putida  
Pseudomonas stutzeri  
Serratia marcescens  
Sphingomonas paucimobilis

**Other Bacteria**

Actinobacillus pleuropneumoniae  
Actinomyces pyogenes  
Bacillus cereus  
Bacteroides fragilis  
Corynebacterium ammoniagenes (Brevibacterium ammoniagenes)  
Bordetella bronchiseptica  
Burkholderia picketti  
Campylobacter jejuni  
Chryseomonas luteola  
Corynebacterium pseudotuberculosis  
Enterobacter aerogenes  
Enterococcus faecalis  
Enterococcus faecium  
Enterococcus hirae  
Escherichia coli  
Escherichia coli strain O157:H7  
Escherichia vulneris

Haemophilus influenza  
Klebsiella pneumoniae  
Listeria monocytogenes  
Pasteurella haemolyticus  
Pseudomonas aeruginosa  
Rhodococcus equi  
Salmonella enterica  
Salmonella schottmuelleri  
Salmonella typhi  
Shigella dysenteriae  
Staphylococcus aureus  
Staphylococcus auricularis  
Staphylococcus capitis  
Staphylococcus hominis  
Staphylococcus simulans  
Stenotrophomonas maltophilia  
Streptococcus equi var. equi  
Streptococcus equi var. zooepidermicus  
Streptococcus pneumoniae (PRSP)  
Streptococcus pyogenes  
Streptococcus salivarius

**Yersinia enterocolitica Pathogenic Fungi**

Trichophyton mentagrophytes

**Environmental Fungi**

Aspergillus candidus  
Aspergillus niger  
Penicillium chermesinum  
Penicillium oxalicum  
Penicillium spinulosum  
Ulocladium sp.

**Antibiotic-Resistant Gram Negative Bacteria**

Pseudomonas aeruginosa (Sulfa, Cefatoxime, Nitrofurantoin, Tetracycline, Amikacin, Ampicillin, Cephalothin and Bactine Resistant)  
Escherichia coli (Ampicillin, Tetracycline, Penicillin and Sulfa Resistant)  
Klebsiella oxytoca (Ampicillin, Sulfanilimide and Tetracycline Resistant)  
Klebsiella pneumoniae type 1 (Ampicillin, Tetracycline, Cephalothin and Sulfa Resistant)  
Morganella morganii (Penicillin and Tetracycline Resistant)  
Enterobacter agglomerans (Ampicillin and Sulfanylilimide Resistant)  
Salmonella choleraesuis (Antibiotic Resistant)  
Enterobacteriacia with extended beta-lactamase resistance (Ampicillin and Piperacillin Resistant)



## Antibiotic-Resistant Gram Positive Bacteria

Enterococcus faecalis (Vancomycin Resistant – VRE)  
Enterococcus faecium (Vancomycin Resistant – VRE)  
Staphylococcus aureus (Methicillin-MRSA, Community-Associated Methicillin-Resistant – CA-MRSA PVL Positive)  
Staphylococcus aureus (CA-MRSA Genotype USA 400)  
Staphylococcus aureus (Penicillin G, Penicillin, Ampicillin, Cefazolin, Cefatoxime, Chloramphenicol, Ciprofloxacin, Clindimycin, Erythromycin, Oxacillin, Rifampin, Tetracycline Resistant)  
Staphylococcus aureus (Vancomycin Resistant – VRSA)  
Staphylococcus aureus (Vancomycin Resistant Intermediate – VISA)  
Staphylococcus epidermidis (Ampicillin and Drug-Resistant)

## Virucidal\* Performance

At 0.35 ounces per gallon (1:365) use level, this product was evaluated in the presence of 5% serum with a 10-minute contact time unless otherwise noted below and found to be effective against the following viruses on hard, non-porous environmental surfaces:

*Kills Pandemic 2009 H1N1 influenza A virus.*

## Human Viruses

Adenovirus type 2  
Cytomegalovirus  
HBV (Hepatitis B Virus)  
HCV (Hepatitis C Virus)  
Herpes Simplex type 1 Virus  
Herpes Simplex type 2 Virus  
HIV-1 (AIDS Virus)  
Human Coronavirus  
Influenza A/Brazil Virus  
Influenza A/Victoria (H3N2) Virus  
Influenza A2-Asian Virus  
Influenza B Virus (Allen strain)  
Influenza C Virus (Taylor strain)  
Measles Virus  
Parainfluenza Virus type 1  
Poliovirus type 1 (Chat strain)  
30 minutes contact time  
Respiratory Syncytial Virus  
Rotavirus  
Vaccina Virus

## Animal Premise Virucidal\* Performance

At 0.35 ounces per gallon (1:365) use level, this product was evaluated in the presence of 5% serum with a 10 -minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

## Non-Human Viruses

Avian Influenza/Turkey/Wisconsin Virus  
Canine Coronavirus  
Canine Distemper Virus  
Canine Herpesvirus  
Equine Herpesvirus  
Equine Influenza Virus  
Feline Calicivirus  
Norovirus  
Feline Infectious Peritonitis Virus  
Infectious Bovine Rhinotracheitis (IBR)  
Virus  
Newcastle Disease Virus  
Porcine Parvovirus  
Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)  
Porcine Rotavirus  
Pseudorabies Virus  
Transmissible Gastroenteritis (TGE) Virus  
T1 bacteriophage  
T4 bacteriophage  
Vesicular Stomatitis Virus (VSV)  
Bovine Viral Diarrhea Virus (BVDV)  
Avian Influenza Virus (H5N1)  
Influenza A Virus (H1N1) (formerly called Swine Flu)

## Product Specifications

(Typical Values)

### Active Ingredients

Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) dimethyl benzyl ammonium chloride 13.238%

Alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>,) dimethyl ethylbenzyl ammonium chloride 13.238%

### EPA Registration

EPA Reg. No. 61178-5-10350

EPA Est. No. 75521-WI-002, 75521-WI-001, 10350-WI-001



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## Important Notice to User

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**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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### Building and Commercial Services Division

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