



# HB Quat Disinfectant Cleaner Concentrate 25H

## Technical Data

November 2007 Version 2

### Description:

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

3M™ HB Quat Disinfectant Cleaner is for use on hard, non-porous surfaces such as floors or walls, to clean, disinfect and deodorize. This product is effective in 300 ppm hard water (calculated as CaCO<sub>3</sub>) in the presence of organic soil (5% blood serum). The ready-to-use solution contains 725 ppm quat.

### Applications:

Use on washable, hard, non-porous environmental surfaces 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:

#### Concentrate:

2-liter bottle

- 6 bottles per case

Each 2-liter bottle makes 180 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.

Dilute 3M™ HB Quat Disinfectant Cleaner using the 3M™ Twist 'n Fill™ Cleaning Chemical Management System into a properly labeled bottle or mop bucket.

### 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*, *Salmonella choleraesuis* 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.

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.

### Disinfection Directions:

Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, mop, sponge or hand pump trigger sprayer such that all surfaces remain wet for 10 minutes. For sprayer applications, use a course spray device. Spray 6 to 8 inches from the surface. Rub with brush, sponge or cloth. Do not breathe spray mist. Let air dry.

**KILLS HIV-1, HBV and 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 (AIDS Virus), Hepatitis B Virus, or Hepatitis C Virus.

**Special instructions for cleaning and decontamination of HIV-1, HBV and HCV on surfaces or objects soiled with blood or 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 or eye protection.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of disinfectant.

**Disposal of infectious material:** Blood and other body fluids should be autoclaved and disposed of according to 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 and bacteria listed on this label is 10 minutes except for Polio virus Type 1 (chat strain) which is 30 minutes.

**Cleaning & Deodorizing Directions:** Product deodorizes garbage storage areas, empty garbage cans, exterior and/or interior of toilet bowls and other odor-causing areas. Apply and wipe.

**Fungicide Directions:** Where a fungicide is required, this product can be used in the same sites and surfaces indicated in the label. The dilution, application and contact time is the same as the disinfection section. List of specific sites for where a fungicide is necessary: Shower areas, bathroom floors, bathroom benches.

**Virucidal\*:** When used on inanimate, hard, non-porous, environmental surfaces when diluted using the 3M™ Twist 'n Fill™ Cleaning Chemical Management System for a 10 minute contact time, except for Polio virus Type 1 (chat strain) which requires a 30 minute contact time.

**Efficacy:**

When diluted using the 3M™ Twist 'n Fill™ Cleaning Chemical Management System and used according to directions contained on the product label, 3M™ HB Quat Disinfectant Cleaner is effective against the following micro-organisms.

**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

**Gram Negative Clinical Isolates**

Acinetobacter calcoaceticus var. anitratus  
Acinetobacter calcoaceticus var. lwoffii  
Bordetella bronchiseptica  
Burkholderia cepacia  
Brevundimonas dimunita  
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

**Antibiotic Resistant Bacteria**

Enterococcus faecalis - VRE  
(Vancomycin Resistant)  
Staphylococcus aureus - MRSA  
(Methicillin Resistant)

**Other Bacteria**

Actinobacillus pleuropneumoniae  
Actinomyces pyogenes  
Bordetella bronchiseptica  
Burkholderia picketti  
Campylobacter jejuni  
Corynebacterium pseudotuberculosis  
Enterobacter aerogenes  
Enterococcus faecalis  
Enterococcus faecium  
Escherichia coli  
Escherichia coli strain O157:H7  
Escherichia vulneris  
Listeria monocytogenes  
Pasteurella haemolyticus  
Pseudomonas aeruginosa  
Rhodococcus equi  
Salmonella choleraesuis  
Salmonella schottmuelleri  
Salmonella typhi  
Staphylococcus aureus  
Staphylococcus auricularis  
Staphylococcus capitis  
Staphylococcus hominis  
Staphylococcus simulans  
Streptococcus equi var. equi  
Streptococcus equi var. zooepidermicus  
Streptococcus pyogenes  
Streptococcus salivarius  
Yersinia enterocolitica

**Fungi**

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

**Human Viruses**

\*Cytomegalovirus  
\*HBV (Hepatitis B Virus)  
\*HBC (Hepatitis C Virus)  
\*Herpes Simplex type 2 Virus  
\*HIV-1 (AIDS Virus)  
\*Human Coronavirus  
\*Influenza A/Brazil  
\*Influenza B Virus (Allen strain)  
\*Influenza C Virus (Taylor strain)

\*Measles Virus  
\*Parainfluenza type 1  
\*Poliovirus type 1 (Chat strain) 30 minutes contact time  
\*Respiratory Syneytial Virus  
\*Rotavirus

**Non-Human Viruses**

\*Avian Influenza/Turkey/Wisconsin  
\*Bovine Viral Diarrhea Virus (BVDV)  
\*Canine Coronavirus  
\*Equine Influenza  
\*Feline Calicivirus  
\*Infectious Bovine Rhinotracheitis (IBR)  
\*Newcastle Disease  
\*Porcine Parvovirus  
\*Pseudorabies Virus  
\*Transmissible Gastroenteritis (TGE)  
\*T1 bacteriophage  
\*T4 bacteriophage

**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. 33915-MI-001

**Concentrate:**

1. pH: 12-13.2
2. Flashpoint: 133°F
3. Solubility in water: Complete
4. Specific Gravity: 1.03
5. Viscosity: <100 cps
6. Appearance: Light amber liquid
7. Fragrance: Mild odor

**Precaution Summary Concentrate:**

Eye Contact: Corrosive to the eyes.  
Skin Contact: Corrosive to skin.  
Inhalation: Upper respiratory irritation.

**Note:**

**Refer to product Material Safety Data Sheets (MSDS: Concentrate 18-1457-3) 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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