



# HB Quat Disinfectant Cleaner

## Product No. 25

### Technical Data

July 2005

#### 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 a one-step, low-level, hospital grade disinfectant cleaner effective in 300 ppm hard water (calculated as CaCO<sub>3</sub>) in the presence of 5% organic soil. The ready-to-use solution contains 725 ppm quat, and at that level is effective against a broad spectrum of bacteria and viruses, (including Hepatitis B (HBV), Hepatitis C (HCV) and HIV-1, the AIDS virus).

3M™ HB Quat Disinfectant Cleaner cleans, disinfects & deodorizes in one labor saving step.

#### Applications:

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

- Hospitals, surgi-centers, nursing homes, and 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 yields  
180 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™ HB Quat Disinfectant Cleaner 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.

#### 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.

#### Disinfection 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 required prior to applying disinfectant.

**NOTE:** This product is intended for non-food contact surfaces only.

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 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, 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 disinfectant.

**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.

**Cleaning & Deodorizing Directions:** Product deodorizes garbage storage areas, empty garbage cans, toilet bowls and other odor-causing areas.

**Fungicidal Directions:**

For use in areas such as shower areas and bathroom floors.

**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 Twist 'n Fill™ dispenser and used according to directions contained on the product label, 3M™ HB Quat Disinfectant Cleaner is effective against the following 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  
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

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  
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)  
Respiratory Syncytial 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

**Ready-to-Use:**

1. pH: approx. 9
2. Flash Point: N/A
3. Solubility in Water: Complete
4. Specific Gravity: 1.0
5. Viscosity: <100 cps
6. Appearance: Clear, colorless to light yellow liquid
7. Fragrance: Mild odor

**Precaution Summary****Concentrate:**

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

**Ready-to-Use:**

Eye Contact: Mild eye irritant.  
Skin Contact: Mild skin irritant after prolonged contact.  
Inhalation: Upper respiratory irritant.

**Note:**

Refer to product Material Safety Data Sheets (MSDS: Concentrate 18-1456-5, Ready-to-use 18-1459-9) 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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