HB Quat Disinfectant Cleaner
Product No. 25

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 CaCO₃) 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-CLEARED 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 haemolytica
Pseudomonas aeruginosa
Rhodococcus equi
Salmonella choleriaesuis
Salmonella schottmuelleri
Salmonella typhi
Staphylococcus aureus
Staphylococcus aureus
Staphylococcus epidermidis
Staphylococcus saprophyticus
Streptococcus haemolyticus

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% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride 13.238%
Alkyl (68% C12, 32% C14,) 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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