

Quaternary Disinfectant Concentrate - BKC

Benzalkonium Chloride (BKC) · Effective Cleaning & Disinfection

KEY BENEFITS

— BKC 0.5% w/w	quaternary ammonium antimicrobial — the active class used in surgical scrubs, pharmaceutical disinfection, and medical device sterilisation, deployed at institutional floor scale.
— Occupied-space compatible	lime fragrance replaces chemical odour entirely — suitable for active hospital wards, school classrooms, and industrial food-prep areas without disrupting occupancy.
— pH 8–10	near-neutral to mildly alkaline — compatible with a wider range of floor substrates than strongly alkaline alternatives and safe under repeated daily use.
— No rinsing required	working solution deposits a thin antimicrobial film on the floor surface during air-drying, extending residual efficacy between mop passes.
— NABH and JCI housekeeping protocol compatible	formulated to meet the chemical specification requirements of accredited healthcare facility environments.
— Preparation	Fill a clean mop bucket with the required volume of water. Add concentrate after water.

AT A GLANCE

pH	8.0–10.0 (near-neutral to mildly alkaline)
Fragrance	Lime — calibrated for continuous-occupancy environments
Pack size	5 Litres concentrate
Shelf life	24 months from date of manufacture, unopened
Rinse after use	Not required

HOW TO USE

- 1 Preparation**
Fill a clean mop bucket with the required volume of water. Add concentrate after water.
- 2 Standard dilution**
25 ml per litre of water for routine daily cleaning of occupied institutional floors.
- 3 Heavy-soil dilution**
45 ml per litre for high-risk zones, post-incident cleaning, or areas with elevated contamination load.
- 4 Dwell & dry**
Allow to air-dry. No rinsing required. Working solution effective for up to 4 hours in a sealed bucket. Replace when contaminated.

WHY IT WORKS

How does Benzalkonium Chloride (BKC) work as a disinfectant, and why does it outperform phenolics in occupied environments? Benzalkonium Chloride belongs to the quaternary ammonium compound (QAC) family — cationic surfactants characterised by a positively charged nitrogen atom bonded to four organic groups. This positive charge is the mechanism of antimicrobial action: bacterial cell membranes carry a net negative surface charge, and BKC is electrostatically attracted to the membrane surface. On binding, it disrupts the phospholipid bilayer, causing membrane permeabilisation, loss of intracellular integrity, and rapid cell death. At pH 8–10, the formulation maintains BKC in its most active cationic state while counteracting the efficacy-reducing effect of hard water calcium and magnesium ions. The alkaline pH also enhances the solubilisation of surface organic deposits, complementing the disinfection mechanism with a cleaning action that keeps floor surfaces in the condition required for optimal antimicrobial performance.

DID YOU KNOW

Fact BKC (Benzalkonium Chloride) is in the same chemical class as the active in your eye drops and contact lens solution. At the correct dilution on your floors, you're using a pharmaceutical-grade antimicrobial at housekeeping scale. Most people never know.

FULL PRODUCT SPECIFICATIONS

Active ingredient	Benzalkonium Chloride (BKC) 0.5% w/w
Active class	Quaternary ammonium compound (QAC)
pH	8.0–10.0 (near-neutral to mildly alkaline)
Specific gravity	1.01–1.03 at 25°C
Fragrance	Lime — calibrated for continuous-occupancy environments
Dilution — standard	25 ml per litre of water (1:40)
Dilution — heavy soil	45 ml per litre of water (1:22)
Rinse after use	Not required
PPE	Gloves recommended for concentrate handling
Shelf life	24 months from date of manufacture, unopened
Pack size	5 Litres concentrate
MSDS / TDS	QR code on label · Available on request

CAUTION & STORAGE

Handle with care.

For professional and institutional use. Do not mix with anionic detergents, soaps, or incompatible cleaning chemicals. Avoid contact with eyes and prolonged skin exposure to concentrate. In case of eye contact, rinse immediately with copious clean water for 15 minutes. Keep out of reach of children. Store in original sealed container below 30°C, away from direct sunlight and heat sources. Shelf life 24 months from manufacture date, unopened.

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BEFORE YOU START — PPE REQUIRED

- ✓ Disposable gloves (recommended)

QUICK REFERENCE

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Pack size	5 Litres concentrate
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HAZARD i LOW

DO

- ✓ For professional and institutional use.
- ✓ In case of eye contact, rinse immediately with copious clean water for 15 minutes.
- ✓ Store in original sealed container below 30°C, away from direct sunlight and heat sources.

DON'T

- ✗ Do not mix with anionic detergents, soaps, or incompatible cleaning chemicals.
- ✗ Avoid contact with eyes and prolonged skin exposure to concentrate.
- ✗ Keep out of reach of children.

Emergency / questions: care@allesclinx.com · allesclinx.com · National Poison Control (India): 1800-116-117