

K-CARE® CHG PRESERVATIVE

General Description

Chlorhexidine, also known as chlorhexidine gluconate (CHG), is a disinfectant and antiseptic. It is used in disinfectants (disinfection of the skin and hands), cosmetics (additive to creams, toothpaste, deodorants, and antiperspirants), and pharmaceutical products (preservative in eye drops, active substance in wound dressings and antiseptic mouthwashes).

K-CARE® CHG PRESERVATIVE, the CDI trade name of chlorhexidine gluconate (CHG), is effective against a range of microorganisms. It came into medical use in the 1950s. It is on the World Health Organization's List of Essential Medicines, the safest and most effective medicines needed in a health system.

Chlorhexidine gluconate is active against Gram-positive and Gram-negative organisms, facultative anaerobes, aerobes, and yeasts. It is particularly effective against Gram-positive bacteria (in concentrations \geq 1 µg/l). Significantly higher concentrations (10 to more than 73 µg/ml) are required for Gram-negative bacteria and fungi.

Chlorhexidine gluconate, like other cation-active compounds, remains on the skin. It is frequently combined with alcohols (ethanol and isopropyl alcohol). At physiologic pH, chlorhexidine salts dissociate and release the positively charged chlorhexidine cation. The bactericidal effect is a result of the binding of this cationic molecule to negatively charged bacterial cell walls.

Typical Properties

Item	Standards
Active Ingredient:	
Chlorhexidine digluconate	18-22%
Appearance	Colorless to pale yellow
Odor	Faint, medicine-like
pH at 25°C:	5.5 – 7.0 (50g/l)
Clarity and color of solution	When freshly prepared is clear and colourless
Melting range	78.0~82.0°C
Loss on drying	≤0.50%
Density at 20°C:	1.04-1.08 (20 °C)
Solubility	Soluble in water, 21 g/L in ethanol, 35 g/L in isopropanol, 44 g/L
	in acetone

Applications

Sector Pattern of Use

Skin care application Pre-operative scrub, Bathing and showering solution for patients. Antiseptic skin wipes.

Gauze and Catheter dressing

Oral Hygiene Mouthwash and Tooth Paste

Hand Hygiene Hand Sanitizer and rubbing waterless gel

Regional Offices:

CDI Co.,Ltd, 129 Chungwonsandan-8-gil Mado-myon, Hwasung-si Gyonggi-do Korea 18543

Phone: +82-31-366-3588 Fax: +82-31-366-3598

CDI Co., Ltd, 46-17 Eunhangnamu-ro Yanggam-myon, Hwasung-si Gyonggi-do, Korea 18633

Phone: +82-31-366-1748 Fax: +82-31-366-1749

ASIA CDI Pte Ltd, 531A Upper Cross Street #04-95 Hong Lim Complex Singapore 051531

Phone: +65-97737948 Fax: +65-68687277

CDI China Corporation, B410, ChangZhou science and technology building of

Beijing University of Chemical Technology 520 Avenue, Changzhou Science & Education Town, Jiangsu China

Phone: +86-136061463883 Fax: +86-519-81297686

The information contained in this document and the various products described are intended for use only by persons having technical skill and at their own discretion and risk after they have performed necessary technical investigations, tests and evaluations of the products and their uses. While the information herein is believed to be reliable, we do not guarantee its accuracy and a purchaser must make its own determination of a product's suitability for purchaser's use, for the protection of the environment, and for the health and safety of its employees and the purchasers of its products. Neither CDI nor its affiliates shall be responsible for the use of this information, or of any product, method, or apparatus described in this document. Nothing herein waives any of CDI's or its affiliates' conditions of sale, and WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR USE OR PURPOSE. We also make no warranty against infringement of any patents by reason of purchaser's use of any product described in this document.