

TECHNICAL BULLETIN



KO+ CLEANER DEGREASER DISINFECTANT

KO+ is a phosphate-free cleaner degreaser disinfectant designed for general household use, schools, food processing plants and light industrial and hospital applications where housekeeping is of prime importance in controlling the hazard of cross contamination.

PHYSICAL DATA

ASPECT: Red liquid

ODOUR: Citrus

pH: 11,5 ± 0,5

ACTIVE INGREDIENTS: 3,2% Third generation Quaternary ammonium

DIN #: 02460629

PHOSPHATES: No

USE

When used as directed, this product is formulated to disinfect inanimate hard surfaces such as walls, floors, sink tops, toilet bowls, tables, chairs, bed frames and telephones. For larger areas, such as patient care facilities and restrooms, this product is designed to provide both general cleaning and disinfecting. In addition, this product deodorizes those areas which generally are hard to keep fresh smelling such as garbage storage areas, empty garbage bins and cans, toilet bowls and any other areas which are prone to odours caused by microorganisms.

DIRECTIONS

This product is not intended for use on critical and semi-critical medical instruments surfaces.

DISINFECTION: To disinfect hard non-porous surfaces such as walls, floors, table tops, add 23,5 mL of **KO+** per litre of water. Apply solution with mop, cloth, sponge or hand-pump trigger sprayer so as to wet thoroughly. Allow surfaces to remain wet for 10 minutes and then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. When used at this level on surfaces coming in direct contact with food, rinse surfaces thoroughly with potable water or follow sanitizing directions below.

HOSPITAL DISINFECTION: Add 23,5 mL **KO+** per litre of water. To disinfect toilet bowls, flush toilet and add 15,6 mL of **KO+** directly to the toilet bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush. For heavily soiled areas, a pre-cleaning step is required and recommended. Prepare a fresh solution for each use.

SANITIZATION: Recommended for use in restaurants, dairies, food processing plants and bars. When used as directed, this product is an effective sanitizer against *Escherichia coli* and *Staphylococcus aureus*. Remove all gross food particles and soil from areas which are to be sanitized with a good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with a potable water rinse. To sanitize a pre-cleaned and potable water-rinsed, non-porous, food contact surface, prepare 200 ppm active quaternary solution by adding 25mL of **KO+** to 4 litres of water (6,25 mL/L).

To sanitize immobile items such as tanks, chopping blocks and counter tops, apply sufficient product by hand pump trigger sprayer, mop, sponge or cloth to flood the area with a 200 ppm active quaternary solution. Allow surfaces to remain wet for at least 60 seconds. Remove, drain the use solution from the surface and rinse thoroughly with potable water. Air dry. Prepare a fresh solution daily or more frequently as soil is apparent.



AVAILABLE SIZES

1 L 2003974
4 L 2003975
20 L 2003976

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To sanitize mobile items such as drinking glasses and eating utensils, immerse in a 200 ppm active quaternary solution for at least 60 seconds making sure to immerse completely. Remove, drain the use solution from the surface and rinse thoroughly with potable water. Air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

When used for sanitization of previously cleaned food equipment or food contact items, limit the active quaternary to 200 ppm. This product is an effective sanitizer when diluted in water up to 250 ppm hardness (CaCO₃).

MILDEWSTAT: To control mold and mildew on hard, non-porous surfaces (such as floors, walls, table tops), clean surfaces then add 23,5 mL of **KO+** per litre of water. Apply with cloth, mop or sponge to surfaces to be treated making sure to wet completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

DISINFECTION: When diluted at a rate of 23,5 mL per litre of water, this product exhibits effective disinfectant activity against the following:

Pseudomonas aeruginosa PRD 10	Escherichia coli
Enterobacter aerogenes	Brevibacterium ammoniagenes
Streptococcus faecalis	Klebsiella pneumoniae
Shigella dysenteriae	Salmonella schottmuelleri
Staphylococcus aureus	Salmonella enterica
Streptococcus salivarius	Streptococcus Pyogenes
Methicillin resistant Staphylococcus aureus (MRSA)	Vancomycin resistant Staphylococcus aureus (VRSA)
Klebsiella pneumonia New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant	

FUNGICIDAL ACTIVITY: At this level, this product is also fungicidal against pathogenic fungi, Trichophyton mentagrophytes.

VIRUS ACTIVITY: This product when used on environmental, inanimate hard surfaces at 23,5 mL per litre of water exhibits effective virucidal activity against Influenza A2/Asian (representative of the common flu virus), Herpes Simplex Type 1 (causative agent of fever blisters and mononucleosis), Adenovirus Type 2 (causative agent of upper respiratory infections), Vaccinia virus (representative of the pox virus group), Feline calicivirus, Norovirus (including Norwalk Virus) and Avian Influenza virus, Type A (Turkey/Wis/66), H9N2, Hepatitis C Virus (HCV). This product has demonstrated effectiveness against Vaccinia and Influenza A virus and is expected to inactivate all Influenza A viruses including 2009 (H1N1) pandemic Influenza A virus.

Efficacy tests have demonstrated that **KO+** is effective against the following bacteria and fungi in the presence of organic soil (5% blood serum).

GUARANTEED ANALYSIS

Alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride.....	1,6% w/w
Alkyl (68%C12, 32%C14) dimethyl ethylbenzyl ammonium chloride.....	1,6% w/w

ADVANTAGES

Disinfectant | Deodorizer | Sanitizer | Fungicide | Mildewstat | Economy Of Use | Broad Spectrum Kill | Kills Norovirus | Cleans And Cuts Grease On Surfaces | Alcohol, Solvent And Bleach Free

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Can cause eye damage and severe skin irritation. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.