Ampholytic surfactants, sequesterants/detergents

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**COMPOSITION**

The core actives of all the disinfectant products are quaternary ammonium and biguanide compound, with non toxic ampholytic surfactants and sequesterants.

**Application**

The core product **F10SC VETERINARY DISINFECTANT** is a high performance surface acting biocidal compound and due to its inherently low toxicity and low irritation characteristics is widely used within the veterinary profession in companion and large animal practices, referral hospitals, zoos's, laboratories, and various other institutions. It is used in numerous applications, i.e. cold sterilisation of instruments and equipment including endoscopes, intravenous catheters, and endotraechal tubes; high level disinfection of hard surfaces and air spaces, water treatment, and as a sanitising rinse for solid food and fruit. Foggging with **F10SC VETERINARY DISINFECTANT**, (a spray of fine mist-like droplets) has been shown to be 100% effective in eliminating airborne micro-organisms.

**F10SCXVD VETERINARY DISINFECTANT/CLEANSER** is used for hard surface disinfection and cleaning of lightly soiled areas such as kennels and cages.

**F10SC VETERINARY DISINFECTANT** has been successfully used in aerosol fogging applications in the presence of animals as well as a number of clinical applications including nebulising in respiratory tract Aspergillosis infections, wound irrigation, and nasal flushing.

**F10CL GENERAL FARM DISINFECTANT** is specifically buffered to eliminate Foot and Mouth Disease Virus.

**F10 SKIN PREP SOLUTION** is a pre-op skin decontaminant.

**F10 ODOUR ELIMINATOR** is a hard surface and aerosol high level disinfectant with a masking pine fragrance.

**F10 AEROSOL DISINFECTANT** is available on/off and total evacuation actuators for use as a hard surface and air space disinfectant. Tests have shown that aerosol disinfection is an effective method of carrying out high level disinfection of air spaces.

**F10 DISINFECTANT SPRAY WITH INSECTICIDE** combines biological and insecticidal efficacy. The insecticidal target species are Lucilia cuprina, commonly distributed blow fly in South Africa. Tests have shown that the product is effective in the egg, larval and adult stages. Available with or without a water soluble marker.

**F10 WIPES** are a disinfectant impregnated surface wipe for use on equipment such as thermometers, and for hand decontamination when washing facilities are unavailable.

**ANTIMICROBIAL ACTION**

The antimicrobial action mechanism of the F10 branded disinfectants is taken from each component separately but in addition is due to the additive synergistic action of all components combined.

**Bactericidal tests** have been carried out in accordance with SANS 636-2001 - Standard (South African) having a performance pass criteria of >log reduction in microbial counts, the AFNOR Standard (French) which is a >log reduction in microbial counts, the European Union EN Standard which is a >log reduction in microbial counts, and the AOAC Standard (USA) which is a >log (1,000,000 times) reduction in microbial counts. MIC in vitro tests have shown significant depth of performance as indicated. Generally testing was carried out at ambient temperatures with the exception of EN Standard tests where some were carried out at low temperatures 10°C and some DEFRA tests at 4°C. The EN Standard for low temperatures is 10°C and at this temperatures bactericidal performance was equal to that at ambient temperatures, however there was a significant fall off in performance at 4°C. Other tests carried out at elevated temperatures of 45°C showed a significant increase in performance.
Fungicidal tests have been carried out in accordance with SANS 636-2001, AFNOR and EN Standards which require a log² and log⁵ reduction in microbial counts respectively.

Virucidal tests have been carried out in accordance with various internationally accepted protocols by the UP Faculty of Veterinary Science's Department of Poultry Diseases, and the Department of Veterinary Tropical Diseases; the ARC - Onderstepoort Veterinary Institute. The FMDV test was carried in accordance with the DEFRA (UK) Standard (F10CL General Farm Disinfectant only). Test requirements called for log⁴ and log⁵ reduction in microbial counts.

Sporicidal tests have been carried out in accordance with EN 13704-2002, 13697-2001, and 1650-1997 Standards which required a log³ reduction in microbial counts.

CONCENTRATIONS AND CONTACT TIMES

Concentrations and contact times are indicated on each product label. It should be noted that additional tests were carried out to determine various speed of kill rates to meet varying application demands.

Bactericidal test standard contact times are generally 5 minutes. However it was found that a log² reduction in gram positive bacteria was achieved in 30 seconds and similarly 60 seconds for gram negative bacteria all at a concentration of 1:500 of F10SC Veterinary Disinfectant.

In the AOAC test a log⁴ reduction was achieved in both gram positive and gram negative bacteria in a 10 minutes contact time.

Fungi in the vegetative state, yeasts and moulds were eliminated in 30 seconds at a concentration of 1:1000 or using 1:250 in 15 minutes with F10SC Veterinary Disinfectant.

Acute oral and dermal toxicity

After taking account of the relative volatility, acute oral toxicity, dosage form and direction for use the inhalation toxicity of F10 disinfectant products will not be greater than the values shown for acute oral toxicity.

Residual toxicity

Five-week supervised trial using day-old broiler chicks restricted to 1:1000 and 1:250 solutions of F10SC in drinking water showed no F10 residual build-up in muscle meat, liver or kidneys.

CORROSION

The F10 Veterinary Disinfectants are non-corrosive at the recommended dilutions (complies with SABS test 1615 on polished aluminium strip after 30 days).

FREE RINSING

All F10SC Veterinary Disinfectants are free rinsing at recommended dilutions (complies with SABS test 1593 6.11)

WATER INSOLUBLE MATTER CONTENT

The water insoluble matter content of F10SC Veterinary Disinfectants and F10 Skin Prep Solution is 0.3g/litre (complies with SABS 1593 6.12)

BIODEGRADABLE

The F10SC Veterinary Disinfectants when used at recommended dilutions have a zero rating in terms EU standards.

PRECAUTIONS

Ingestion: Do not induce vomiting, give milk or water to drink. Eye contact: Rinse eyes with water, seek medical advice if necessary. In spray and aerosol applications it is advisable to wear disposable mask over mouth, nose and eye protection.

WARNINGS

Do not mix with soap or other chemicals. Avoid contact with eyes. Keep out of reach of children, un instructed persons and pets (F10 Aerosol Disinfectant is a highly flammable aerosol) (Avoid contact with felines when using F10 Disinfectant Spray with Insecticide).

PRESENTATION

HPE bottles of varying sizes except for the F10 Aerosol Disinfectant which is in a pressurized metal canister and the F10 Wipes which are packed into a sealed plastic bag.

STORAGE INSTRUCTION

Store below 30°C in dry conditions, out of direct sunlight.

REGISTRATION HOLDER

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