

# F10



## Veterinary Disinfectant



### PROPRIETARY NAME ,SIZES & REGISTRATION NUMBERS



#### • F10SC VETERINARY DISINFECTANT

(liquid, dilute as directed, in 25L, 5L, 1L, 200ml, 100ml)

Reg No: G3070(A), GNR529/29990/040/150(B), (C), (D), 54149(E), L78846(F), 6848(G), H1280(H),  



#### • F10SCXD VETERINARY DISINFECTANT/CLEANSER

(liquid, dilute as directed, in 25L, 5L, 1L)

Reg No: G3073(A), GNR529/29990/040/150(B), L78846(F), H1280(H),  


#### • F10CL GENERAL FARM DISINFECTANT

(liquid, dilute as directed, in 25L, 5L,)

Reg No: G2934(A), GNR529/29990/040/150(B),  


#### • F10 SKIN PREP SOLUTION

(liquid, use as is, in 5L)

Reg No: G3105(A), 


#### • F10 ODOUR ELIMINATOR

(liquid, use as is in 500ml, dilute as directed in the 5 L)

Reg No: GNR529/29990/040/150(B), 


#### • F10 AEROSOL DISINFECTANT

(500ml aerosol pressurised dispensing canister, use as is)

Reg No: GNR529/29990/040/150(B), 


#### • F10 DISINFECTANT SPRAY WITH INSECTICIDE

(liquid, use as is, in 5L and 1L)

Reg No: GNR529/29990/040/150(B), 

#### • F10 WIPES

(100 impregnated cellulose tissues)

Reg No: GNR529/29990/040/150(B), 

### REGISTRATION AUTHORITIES

- |  |                          |
|--|--------------------------|
| <b>A</b> Department of Agriculture, Act 36/1947 (SA) | <b>E</b> APVMA (AUS)     |
| <b>B</b> DTI, Act 29/1993 (SA)                       | <b>F</b> TGA (AUS)       |
| <b>C</b> Department of Agriculture Uruguay           | <b>G</b> AQIS (AUS)      |
| <b>D</b> DEFRA (UK)                                  | <b>H</b> AGRQUALITY (NZ) |

### COMPOSITION

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

LEVEL OF ACTIVES	OTHER	pH*
<b>F10SC VETERINARY DISINFECTANT</b>		
QAC and biguanide 5,8%	Ampholytic surfactants and sequestrants Water to balance	7.5
<b>F10SCXD VETERINARY DISINFECTANT/CLEANSER</b>		
QAC and biguanide 5,8%	Ampholytic surfactants, sequestrants/detergents Fragrance Water to balance	7.5
<b>F10CL GENERAL FARM DISINFECTANT</b>		
QAC and biguanide 1,2%	Ampholytic surfactants, sequestrants/detergents Water to balance	4.6
<b>F10 SKIN PREP SOLUTION</b>		
QAC and biguanide 0,05%	Ampholytic surfactants and sequestrants Alcohol 20% Water to balance	6.5
<b>F10 ODOUR ELIMINATOR</b>		
QAC and biguanide 0,12%	Ampholytic surfactants and sequestrants Fragrance Water to balance	5.9
<b>F10 AEROSOL DISINFECTANT</b>		
QAC and biguanide 0,058%	Ampholytic surfactants and sequestrants Alcohol 80% Dimethyl ether (propellant)	7.5
<b>F10 DISINFECTANT SPRAY WITH INSECTICIDE</b>		
QAC and biguanide 0,44% Cypermethrin 0,25%	Ampholytic surfactants and sequestrants	7.5
<b>F10 WIPES</b>		
QAC and biguanide 0,05%	Ampholytic surfactants and sequestrants	7.5

\* The pH value refers to the packed concentration

### INDICATIONS

A broad spectrum biocide effective against bacteria, fungi, viruses and bacterial and fungal spores is indicative of those shown below:-

BACTERIA (gram positive and gram negative (spp))	FUNGI, YEASTS and MOULDS (spp)	VIRUSES (enveloped and non-enveloped)	SPORES (bacterial and fungal) spp	
Acinetobacter	Listeria	Aspergillus	Adenovirus	Aspergillus
Campylobacter	MRSA	Candida	Avian Influenza H5N2 HPA1	Bacillus
Chlamydia	Mycobacterium	Mycrosporium	Canine parvovirus	Mycrosporium
Clostridium	Mycoplasma	Penicillium	Circovirus	Penicillium
Cholera	Micrococcus	Trichophyton	Enterovirus	Trichophyton
Corynebacterium	Omitobacterium Rhinotracheale		Foot and Mouth Disease*	
Citrobacter	Pasteurella		Feline Herpesvirus	
Enterococcus	Proteus vulgaris		Hepatitis B	
Enterobacter	Pseudomonas		HIV	
Escherichia coli	Salmonella		IBD	
Klebsiella	Staphylococcus		Newcastle Disease	
Leptospira	Streptococcus		Rabies	

\* FMDV is effectively eliminated with the pH buffered product F10CL General Farm Disinfectant

### APPLICATIONS

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, zoo'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 endotracheal tubes; high level disinfection of hard surfaces and air spaces, water treatment, and as a sanitising rinse for solid food and fruit. Fogging with F10SC VETERINARY DISINFECTANT, (a spray of fine mist-like droplets) has been shown to be 100% effective in eliminating airborne micro-organisms.

**F10SCXD 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 *Aspergillus* 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 with 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 biocidal 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, larvae 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<sup>7</sup> reduction in microbial counts, the AFNOR Standard (French) which is a >log<sup>7</sup> reduction in microbial counts, the European Union EN Standard which is a >log<sup>7</sup> reduction in microbial counts, and the AOAC Standard (USA) which is a >log<sup>6</sup> (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.

**FIGURE A: THE F10SC MIC VALUES**

Test organism	Concentration of F10SC (dilution) that resulted in complete visual inhibition of the test organism = MIC value
<i>Pseudomonas aeruginosa</i> - ATCC 27853	A dilution of 1/1000 or 0,1 % F10SC
<i>Escherichia coli</i> - ATCC 25922	A dilution of 1/4000 or 0,025 % F10SC
<i>Staphylococcus aureus</i> - ATCC 25923	A dilution of 1/16000 or 0,00625 % F10SC
<i>Klebsiella pneumoniae</i> - ATCC 10031	A dilution of 1/4000 or 0,025 % F10SC
<i>Staphylococcus aureus</i> - MRSA Local isolate	A dilution of 1/16000 or 0,00625 % F10SC
<i>Pasteurella multocida</i> - Local isolate	A dilution of 1/16000 or 0,00625 % F10SC
<i>Enterococcus faecalis</i> - ATCC 29212	A dilution of 1/16000 or 0,00625 % F10SC
<i>Salmonella choleraesuis</i> , Serotype typhimurium - ATCC 13311	A dilution of 1/8000 or 0,0125 % F10SC

**Fungicidal tests** have been carried out in accordance with SANS 636-2001, AFNOR and EN Standards which require a log<sup>3</sup> and log<sup>4</sup> 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 log<sup>3</sup> and log<sup>2</sup> 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 log<sup>3</sup> 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 log<sup>3</sup> 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 the F10SC Veterinary Disinfectant. In the AOAC test a log<sup>6</sup> 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 1:500 of F10SC Veterinary Disinfectant.

Enveloped viruses were inactivated at 1:500 in 10 minutes whereas the more resistant non-enveloped viruses required a concentration of up to 1:125 with a contact time of 20 minutes to achieve the same reduction. The F10CL General Farm Disinfectant is also used against Foot and Mouth Disease Viruses.

Bacterial and fungal spores log<sup>3</sup> reduction could be achieved in 5 minutes at a concentration of 1:100 or using 1:250 in 15 minutes with F10SC Veterinary Disinfectant.

**DOSAGE AND DIRECTIONS FOR USE**

For F10SC VETERINARY DISINFECTANTS clear away debris and rinse surfaces, then apply as below:

- Environmental general disinfection dilute 1:500
- High level disinfection (including fungal spores) dilute 1:250
- Resistant viruses (e.g. parvovirus) dilute 1:125
- Sterilisation of instruments/equipment dilute 1:100

Additional information is available in application user guidelines. Other products refer to each specific product label.

**TOXICOLOGY**

Studies were carried out by a GLP laboratory in accordance with OECD and EPA guidelines.

**Acute oral and dermal toxicity**

PRODUCT	CONCENTRATION	ORAL	DERMAL
F10SC and F10CL products	2% solution	>5000mg/kg	>5000mg/kg
F10 Disinfectant with Insecticide	As is	>2000mg/kg	>2000mg/kg

**Acute eye and dermal irritation**

PRODUCT	CONCENTRATION	OCULAR	DERMAL
F10SC and F10CL products	2% solution	score 0 at 24 hrs	score 0 at 24 hrs
F10 Disinfectant with Insecticide	As is	score 0 at 24 hrs	score 0 at 24 hrs

**Acute inhalation 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 spraying and aerosol applications it is advisable to wear a 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, uninformed 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**

Health and Hygiene (Pty) Ltd. - Unit 2, Marvil Park, 84 Ratchet Avenue, Stormill, Rooodepoort - PO Box 347, Sunninghill, 2157, South Africa.

**MANUFACTURED BY**

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Distributed by:

**Chemical Essentials (Pty) Ltd**

**13 Abelia Street, Doncaster East, VIC 3109, Australia**

**Tel: +61 3 9841 9901 • Fax: + 61 3 9841 9909**

**www.chemicalessentials.com.au**

