

# SteriGENE® Green

## Product Information

SteriGENE® Green

### Description:

SteriGENE® Green is a mixture of halogenated tertiary amine and organic salts <15%, polymeric biguanide hydrochloride surface active agents corrosion inhibitor, chelating agents, stabilising agents and demineralised water. SteriGENE® Green is free of aldehydes, chlorine and phenols and is concentrated for on-site dilution.



### Action:

It is well known that long chain quaternary compounds that possess the greatest antibacterial activity are those with at least one radical, with a C8 to C18 length carbon chain. It is also known that absorption plays an important role in the activity of disinfectant formulations. SteriGENE® Green disinfectant is highly surface active and is therefore readily absorbed. Because of the large relative surface area of particulate micro-organisms, the first stage of germicidal activity probably begins with the absorption of the disinfectant by the microbial cell. It has been observed that such absorption increased the permeability of the cell membrane; leading to rupture of the cell and the decrease of lysine and glutamic acid. The inclusion of dodecylamine and sulfamic acid in the formulation appears to stimulate the contraction of cytoplasm followed by complete stripping of the cell wall. A second mode of action proposed is that cell death results from inactivation of energy-producing enzymes such as those concerned with glucose, succinate and pyruvate oxidase systems. As with glutaraldehyde and similar toxic substances, the exact mode has not been fully elucidated. However, using standard biocidal tests, this formulation has been shown to be highly effective.

SteriGENE® Green works up to 70% quicker than conventional high level disinfectants with the inclusion of micro-emulsion particles (nano particles) that enable the active ingredient molecules in the product to be carried rapidly through cell walls of micro-organisms. Nano particles can enter areas like microscopic fissures and crevices in hard surfaces which up to now have not been penetrable by conventional carrier systems.

Disinfectant actives are able to spread across a complete surface area, to perform a far more thorough anti pathogenic cleansing task than was previously possible.

### Indications:

Effective against Bacteria, viruses and fungi, including; *Listeria monocytogenes*, *Salmonella* spp., *Escherichia* spp., *Leptospira* spp., *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus* spp., *Proteus vulgaris*, *Pseudomonas* spp., *Mycobacterium fortuitum*, *Bacillus* spp., *Clostridium* spp., *Shigella* spp., *Klebsiella* spp., *Mycobacterium tuberculosis*, *Enterobacter aerogenes*, *Serratia* spp., *Bordetella bronchiseptica*, *Campylobacter* spp., *Legionella* spp., *Microsporum* spp., *Candida albicans*, *Trichophyton* spp., *Penicillium* spp., *Aspergillus niger*, and *Saccharomyces cerevisiae*.

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It is also effective against the viral infections: O rotavirus, hepatitis A and B, herpes, HIV, poliomyelitis, influenza, parvo, Newcastle disease, FeIV, FIP, FIV. Product has been tested and approved by MAF.

#### **Dosage:**

For general disinfection on non-soiled surfaces, use at 1 part concentrate in 200 parts water. Rinse and dry before use. For disinfection and cleaning in the presence of soiling, remove organic material and use at 1 part concentrate in 100 parts water. Rinse and dry before use. For use in the presence of blood or other body fluids, use at 1 part concentrate in 20 parts water. Rinse and dry after 5 minutes. May be used on most hard surfaces including food preparation areas. Avoid contact with polished wood. For laundry soaking, use 1 part concentrate in 20 parts water for 30 minutes. May be used in washing machine (50mL for 4kg loads).

#### **First Aid/Poisoning:**

External use only. If swallowed, DO NOT induce vomiting, contact a doctor or the National Poisons Centre (0800 POISON or 0800 764 766) immediately.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

Avoid eye contact. Wash copiously with water for 10 minutes if in eyes.

Wash splashes from clothes or skin immediately.

Always seek medical advice for persistent reaction to any chemical.

Always study full data sheet before using any chemical preparation.

Storage: Store in dry place not below 0oC or above 30oC and out of direct sunlight. Keep lidded and away from foodstuffs and drink

#### **Other Information:**

SteriGENE® Green is non-toxic, non-staining, non-irritant, non-tainting and non-corrosive when used as directed.

Suitable for use on all surfaces, chairs, floors, walls and appliances. It is safe, flexible and economical to use.

#### **Presentation:**

SteriGENE® Green Concentrate is available in the following sizes:

250ml 500ml RTU Spray 1 litre 1 litre RTU Refill 2 litre 5 litre RTU Refill 5litre 20 litre 200 litre

Once mixed it will keep for up to 12 months.

#### **OTC**

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