

System Three

Dual Action Anti Microbial Anti Mosquito Application

Vital Protection

System three is a new textile impregnation treatment that has been created principally to protect humans against one of the most common tropical diseases - malaria.

Tests have shown that treatment with HealthGuard™ System Three provides the following performance

- 45% reduction in mosquito landings
- 80-90% reduction in actual bites
- 90% effective in repelling blood feeding

Impregnation with HealthGuard™ System Three gives your products unique added value as being mosquito repellent from manufacture and it can also repel other irritating insects such as sand flies, bed bugs, midgies, fleas and dust mites.

HealthGuard™ System Three impregnation gives your customers the reassurance that treated products can help them to avoid nasty, itchy bites or even worse – serious illness.

System Three presents a breakthrough in repellents. The impregnation is anti-bacterial and a non-irritant this means that there are no side effects.

Additionally articles treated with HealthGuard™ System three will inhibit odours and discolouration and be free from microbial attack therefore making them hygienic and more durable.

Independent testing has recommended the use of System Three as an insect repellent treatment for clothing.

Ideal for application on:

- Household Items
- Clothing – in particular Outdoor and Sports
- Camping accessories
- LuggageHealthGuard™ System Three is specifically formulated for textiles.

Why use HealthGuard™ System Three?

This protection is a value-added benefit that consumers expect from high performance, premium products.

Product Benefits

- Safe – classed as a non-hazardous textile chemical
- Environmentally and User Friendly – HealthGuard™ System Three contains no heavy metals such as tributyl tin oxide or organo-chlorines.
- HealthGuard™ System Three is biodegradable
- HealthGuard™ System Three does not emit volatile organic compounds
- HealthGuard™ System Three is non-irritant and non-sensitising
- HealthGuard™ System Three is Durable and will survive washing.
- HealthGuard™ System Three is long lasting and is not affected by sunlight and UV rays.

Endorsement

HealthGuard System Three has undergone fully independent testing and review and exceeds OECD standards to include:

- Environmental Assessment
- Efficacy
- Occupational Health and Safety
- Chemistry and Residues
- Toxicity and Therapeutic Goods Reviews

Reliable, Long Lasting and Effective – HealthGuard System Three has undergone extensive independent testing and will inhibit the following microorganisms

Bacteria

- Bacillus subtilis
- Enterobacter aerogenes
- Escherichia coli
- Proteus vulgaris
- Pseudomonas aeruginosa
- Pseudomonas fluorescens
- Staphylococcus aureus
- Staphylococcus aureus -MRSA A129

Yeasts

- Candida albicans
- Saccharomyces cerevisiae

Mould

- Aspergillus Niger
- Chaetomium globosum
- Penicillium funiculosum
- Ulocladium consortiale

Algae

- Chlorella pyrenoidosa
- Anabaena cylindrica

Note: microbes listed are representative of various groups of fungi and bacteria and do not form an all inclusive list.

Reviewing Bodies

The effectiveness of HealthGuard™ System Three, has been independently reviewed by independent bodies that include

- Department of Health Sciences – University of Technology, Sydney Australia
- Faculty of Science – University of Technology, Sydney Australia
- Department of Microbiology – Monash University, Victoria, Australia
- Department of Microbiology - Prince of Wales Hospital, Hong Kong
- Faculty of Medicine – The Chinese University of Hong Kong, Hong Kong
- United Christian Hospital, Hong Kong
- Lido Medical Centre – Hong Kong
- School of Public Health and Tropical Medicine – James Cook University, Queensland, Australia
- Allergen Control Services, New Zealand
- Acknowledged by the International Asthma Campaign
- Acknowledged by the Allergy Research Foundation
- Intra Tech Healthcare, London

HealthGuard System Three is ultra safe to handle and compatible with all known manufacturing and finishing techniques

HealthGuard System Three has been designed to be applied using existing textile and polymer processing equipment. In almost all cases, no extra steps or processes are required. There should be little or no additional processing cost associated with use.