



STERALL

WHY CHOOSE STERALL?



- | | |
|---|----------------------------------|
| ☼ Alcohol Free | ☼ Green Cleaning Technology |
| ☼ Non-Toxic | ☼ No rinsing required |
| ☼ Environmentally Friendly | ☼ Pet Friendly |
| ☼ Leaves no harsh residue | ☼ Breaks down to saline solution |
| ☼ Breathe Easy- No harsh fumes or chemicals | ☼ SABS & FDA Approved |
| | ☼ Safe on most fabrics |

In today's time, the recent novel COVID 19 outbreak has created tremendous awareness of the importance of disinfection and sanitisation, which is going to be a part of our everyday lives for the foreseeable future. It is paramount that we educate ourselves with the best possible products for effective disinfection and safe long-term use.

OVERVIEW OF STERALL



STERALL provides an alcohol-free misting and spraying multipurpose disinfectant using ECA Technology's active ingredient- HOCL, that complies with international standards used in pharmaceutical and health care industries. Our products are 100% safe for humans, non-toxic, eco-friendly and all-natural- with our active ingredient being both SABS and FDA approved and endorsed by the WHO for water purification. We offer fogging/spraying disinfecting services of homes & vehicles, schools, offices and other high-risk areas. Additionally, we offer at home and travel size sprays for personal disinfection.

The [South African Government](#) has furthermore recommended the use of [hypochlorite's](#) to disinfect contaminated COVID 19 areas. Hypochlorous acid is the best in this class at destroying pathogens- the active ingredient in all STERALL products. According to the American Society for Microbiology, STERALLs' active ingredient is [99,9%](#) effective against bacteria, viruses and fungi yet gentle on the skin and naturally biodegradable to a saline solution therefore not leaving any toxic residue behind.



ECO-FRIENDLY



NON-TOXIC



ALCOHOL FREE



STERALL

WHAT IS HYPOCHLOROUS ACID (HOCL) & HOW IT WORKS:



STERALL contains hypochlorous acid, also known as HOCL & Anolyte, which occurs naturally in our bodies, produced by white blood cells, which kill pathogens by tearing down their cell membranes and protein envelopes. Hypochlorous acid is a disinfectant that is lethal to a multitude of pathogens that are harmful to humans including MRSA, E. coli, Meningitis, Encephalitis, Salmonella, HIV and Epstein Barr, to name a few. Furthermore, HOCL has been proven to destroy even highly resistant viruses, bacteria and spores. In a study by J Williams, even a weak solution of HOCL is irreversibly [lethal to most pathogens](#), but tolerable to bodily cells.

STERALL's Hypochlorous acid solution is a, close to pH neutral, acid with the same acidity of that of a mild citrus juice. Today, technology has improved the shelf life of hypochlorous acid allowing STERALL a [shelf life of up to a year](#) and a much more stable form of HOCL in comparison to HOCL in its pure form which can only last a few hours, according to M. Recalde FAAO. The reason why it is so destructive to pathogens is because it has a very high Redox Potential. This means that it has a strong ability to tear electrons from the atoms of other substances. This removal of electrons changes both substances, the HOCL (receiving the electrons) is neutralized and the other substance i.e. pathogens (losing the electrons) is changed enough that it is usually destroyed. In pathogens, HOCL oxidizes the cell walls of the virus or bacteria it comes in contact with. It then reacts with it and destroys it by breaking down the cell wall and causing necrosis (rupturing of the cell) or apoptosis (programmed cell death). Anything left of the cell contents are then destroyed by the remaining HOCL. A scientific publication by Innogiene, suggest that a virus is not technically a living organism- as it requires a host cell to infect, however it is still [deactivated](#) by HOCL before coming into contact with bodily cells.

Unlike alcohol-based hand sanitisers, which can cause skin irritation and have been proven to cause [skin contact dermatitis](#) with repeated use, STERALL makes use of available free chlorine from HOCL through electrolysis of natural elements, simply put this is done by passing a specific electrical current through a saline solution.



ECO-FRIENDLY



NON-TOXIC



ALCOHOL FREE

ALCOHOL -FREE BENEFIT:












As **STERALL** contains no alcohol, it is suitable for individuals who may be allergic to products containing alcohol and for those who may not use alcohol-based sanitisers due to religious or other reasons, this is an added benefit that makes it suitable for school use with children. Furthermore, due to **STERALL** being alcohol-free, there is the added benefit of our product being non-flammable which is especially important when carrying out fogging and spraying decontaminations as there is no risk that the product will combust if it had to come into contact with electrical equipment or near an open flame.

APPLICATIONS FOR STERALL:



According to K. Rossington, hypochlorous acid is [80 -120](#) times more effective than common liquid bleach and does not bleach or damage most clothing, textiles and fabrics in our specific tested formula. Furthermore, M. Recalde suggests that HOCL is non-irritating, non-corrosive (in a balanced pH solution), [non-carcinogenic](#) and has a temporary mild chlorine smell that dissipates quickly making it suitable for sanitising:

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|---|--|
|  Groceries and fresh produce |  Bedrooms |
|  Kitchen |  Shoes |
|  Living Rooms |  Vehicles |
|  Baby's Rooms |  Schools |
|  Bathrooms |  Offices |



100% SAFE TO USE:



The powerful disinfectant in [STERALL's](#) products, hypochlorous acid, does not cause irritation to skin, eyes or lungs, unlike other chemical disinfectants. A study by HypochlorousAcid.com states that even if it were [ingested it causes no harm](#). Due to its safe nature, [STERALL](#) is the ideal sanitiser for hands, direct food sanitisation, food contact surfaces, room disinfection and any high-risk areas. As [STERALL](#) is made from natural elements, comprising of H₂O, NaCl and electricity, once deactivated it turns back into harmless saline.

[STERALL](#) is so safe to use, that our active ingredient (HOCL) is used to treat medical conditions in the form of being added to numerous medications. As a result, [STERALL](#) is so safe no personal protective equipment (PPE) is required when fogging or spraying rooms or vehicles, however it can be used if desired.

EFFICACY:



Hypochlorous acid has been used for over a century in the medical field and was even used to irrigate and disinfect wounds before antibiotics were available in World War I. It has long been recognized for two important healing characteristics: It has the ability to help wounds heal faster and to do it painlessly. [STERALL](#) is a highly effective disinfecting fog and spraying solution as our product contains 250ppm (parts per million) of HOCL, which is powerful enough to disinfect all surfaces yet gentle enough that it is non-toxic, safe on most fabrics and pet safe. The World Health Organisation (WHO) further [approves](#) and recommends the use of hypochlorous acid as a disinfectant for the treatment of water and pathogen control, as HOCL is the active sanitiser in hypochlorite based products in swimming pools and water treatment plants and is effective at destroying E. coli, among other waterborne bacteria, rapidly.

