



**SURFACE  
SHIELD™**

Helping a Safer Environment



## HYPOCHLOROUS ACID EXPLAINED

We pride ourselves in being the manufacturers of our own product range which is growing rapidly as we continue to grow.

This means you source the products directly from the people who are making the products, enabling you to get real value and giving you peace of mind on the exact contents and manufacturing efficacy.

As part of our range we manufacture hypochlorous acid (HOCl) which we create using only three ingredients: salt, water and electricity. Using a digitally-controlled electrifying process, membranes are used to force the saltwater to separate into two solutions - HOCl (which we use) and NaOH (a byproduct). This combination of ingredients means that our products are 100% fragrance-free and 100% alcohol-free!

**Water Based  
Hypochlorous  
Disinfectant  
Product**



**The fastest application for cleaning and disinfecting your surfaces**

## ABOUT: Hypochlorous Acid (HOCl)

Hypochlorous acid (HOCl) is a weak acid formed via electrolysis that's scientifically-proven as a powerful oxidant, effective against invading bacteria, fungi, and viruses.

- Hypochlorous acid (HOCl) is entirely organic and harmless if ingested
- It is a water-based disinfectant that does not dry out the skin
- Scientifically proven effect against bacteria, viruses and fungi
- Is a ready to use, fragrance free and almost odourless disinfectant.
- It contains no alcohol and unlike alcohol-based disinfectants, it is gentle on the skin and avoids irritating or drying out the skin when frequently used.
- Based on a scientifically proven formula, used by hospitals in Japan, Russia, S Korea and many other countries. Offers longer-lasting protection compared to alcohol based disinfectants.
- Effective wound healing properties.
- Can be used as hand or surface sanitiser.
- Not fire hazardous, resulting in safer, cheaper and less time consuming handling.
- Environmentally friendly.

Hypochlorous acid (HOCl) is the perfect weapon to fight germs. Yet this powerful weapon is 100 percent safe for humans. Chemical free, non-toxic and all-natural, that's an impressive combination. It has been used in the medical field for over a century, even before antibiotics were available, HOCl was used to irrigate and disinfect wounds in World War I and is now used in everyday settings including daycare centers and hospitals.

HOCl is a weak acid that occurs naturally in our body. The most powerful oxidising agent HOCl kills the pathogen by tearing down the cell membranes and proteins.



**HELPING TO CREATE NEW STANDARDS  
FOR CLEANING & DISINFECTING**

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## HOCl Compared To Alcohol & Bleach

As you are aware we have other strong disinfectant agents at our disposal. Bleach is widely used in hospitals and medical practices and shares the same chlorine family as HOCl. Research shows that they both kill bacteria, fungus, spores, and viruses yet bleach is highly irritating to the eyes, skin, and lungs and inhalation over long periods could be carcinogenic. In contrast, HOCl has a temporary and mild chlorine smell that dissipates quickly, it is non-irritating and it does not have poisonous side effects.

Alcohol is a popular disinfectant to use in clinics for wiping down instruments, furniture, and is a key ingredient in hand sanitizers. Ethyl alcohol (70%) is considered more effective compared to isopropyl alcohol. Both are bactericidal, fungicidal and viricidal but are not effective against bacterial spores like HOCl.



**No Irritating or  
Sensitising Chemicals**

## HOCl Or Alcohol As Sanitiser? HOCl Or Alcohol As Sanitiser?

Hand sanitizers with alcohol are used daily in many medical offices, but over time repeated use may lead to hand dermatitis. Many become allergic to hand sanitizers after using it for a longer period, it can be extremely irritating. After discontinuing hand sanitizers and using latex free gloves, it can still take months for hand dermatitis to resolve. In one study, the prevalence of contact dermatitis related to hand hygiene ranged from 25 to 55 percent.

Fortunately, HOCl acid can also be used as a hand sanitiser with no irritating side effects. Moreover, the punch HOCl delivers to pathogens is more powerful than the one delivered by alcohol



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**AS USED IN HEALTHCARE APPLICATIONS FOR CLEANING AND DISINFECTING**