



The Benefits Hypochlorous Acid

Kills **99.99%** of Germs on Hands
& Small Objects



www.ipsltd.biz
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A Game-changer in the
Fight Against Infection



International Product Supplies Limited

ips

The logo consists of the lowercase letters "ips" in a bold, black, sans-serif font, preceded by a red square icon made of a 4x4 grid of smaller squares.

Hypochlorous Acid Explained

Hypochlorous Acid (HOCL) uses only 3 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 is used) and NaOH (a byproduct).

This combination of ingredients means SafeGuard sanitising fluid is 100% fragrance-free and 100% alcohol-free.

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 Explained

- Hypochlorous acid (HOCL) is entirely organic and harmless if ingested.
- It is a water-based disinfectant that does not dry out your skin.
- Scientifically proven effective 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.
- Hypochlorous is effective against a wide range of viruses, bacteria and spores, and laboratory proven, to completely inactivate (99.999% kill rate) E.coli & Norovirus within seconds.
- Effective wound healing properties.
- Can be used as a hand or surface sanitiser.
- Not fire hazardous, resulting in safer, cheaper and less time-consuming handling.

83% less fluid required when compared to alcohol gel.

HOCL occurs naturally in the body produced by white blood cells to destroy pathogens when infection occurs.

SafeGuard uses HOCL which occurs naturally in the human body, it is PH neutral and non-hazardous. No harsh chemicals to dispose of.



The production of **alcohol** is very damaging to the environment, often it is a very polluting industrial process on a large scale.

The single use plastic containers used are vastly reduced and are recyclable, this will help with "plastic pollution" of the planet.

The carbon footprint of transporting alcohol gel is considerable, adding to congestion and the pollution caused by traffic.



Instant Kill

Substantially more effective at killing harmful bacteria and viruses than standard household disinfectants and exceeding the performance of alcohol based hand sanitisers.

SafeGuard provides an instant kill so you can be re-assured once applied to the hands or small objects the risk of spread is eliminated.

HOCL or Alcohol as Sanitiser?

Hand sanitisers with alcohol are used daily in many clinical establishments, but over time repeated use may lead to hand dermatitis. Many become allergic to hand sanitisers after using them for a longer period, it can be extremely irritating.

After discontinuing hand sanitisers 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 per cent.

HOCL acid has a superior pathogen kill rate than alcohol hand sanitisers with no irritating side effects and is kind to the skin.



Gentle on the Skin

More Effective Than Alcohol Based Sanitisers & Disinfectants



The majority of hand sanitisers and disinfectants on the market make the claim that their product kills 99.9% bacteria which sounds great theoretically. However in practice out of 1 million bacteria it'll leave 1000 to grow, multiply and re contaminate the skin.

Hypochlorous kills to 99.9999% meaning that out of 1 million bacteria, none survive, providing an effectively bacteria free surface.

Additionally, Hypochlorous is a pH neutral formulation with no dermatological effect on the hands making it ideal for regular, daily use. It is free from quaternary compounds, surfactants, alcohol, fragrances and dyes. There is no need to wash after use.

Hypochlorous addresses the requirement for a universal sanitiser that has no C.O.S.H.H. implications

Features

- Kills 99.9999% (log7) of bacteria and 99.99% (log4) of viruses
- No COSHH requirement for handling, storage or disposal
- Alcohol-free
- Suitable for fogging

Benefits

- Instant Kill - proven to work in one second
Stops the spread of harmful germs
Eliminates unpleasant odours
- Suitable for use in all environments
Not classed as corrosive or irritating
- No degreasing effect on the skin
Formulated to be near physiological pH
Non-flammable and non-combustible
- Excellent kill rates
Fast and effective disinfection

Saving the environment & money



Assumptions

*Recommended amount of hand gel for each application is 3ml (World Health Org). For this comparison we have used a facility using 4000 applications per week. Savings will vary depending on usage.

*SafeGuard supplies sanitising fluid in 1 litre bottles that are recyclable. When comparing plastic waste SafeGuard saves 97% by using fewer bottles, which also saves shipping costs and reduces individual deliveries. This makes SafeGuard more environmentally friendly.

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**HOCL is used in
hospital &
healthcare
environments**

**It's shelf life can
be protected for
up to 12 months**

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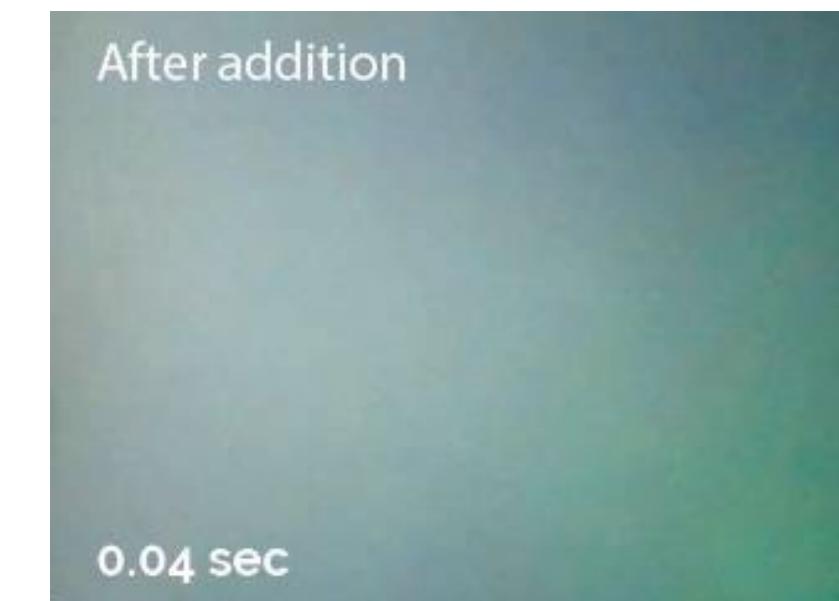


HOCL in Action

The active ingredient used within SafeGuard units is a weak solution of Hypochlorous Acid (Surface Shield™) providing a fast action sporicidal sanitiser . More effective than current commercially available products that cleanse, sterilise and sanitise and is approximatly 100 times more effective than NaOCL . Test example of SafeGuard below on E.coli.

Full tests, analysis and certifications available on request.

Timing of inactivation: Effect of 0.1 µM Surface Shield™ HOCL on transgenic K12 E.coli constitutively expressing EGFP.



Bacterial inactivation in 0.1 sec. Loss of membrane integrity within 0.04 sec

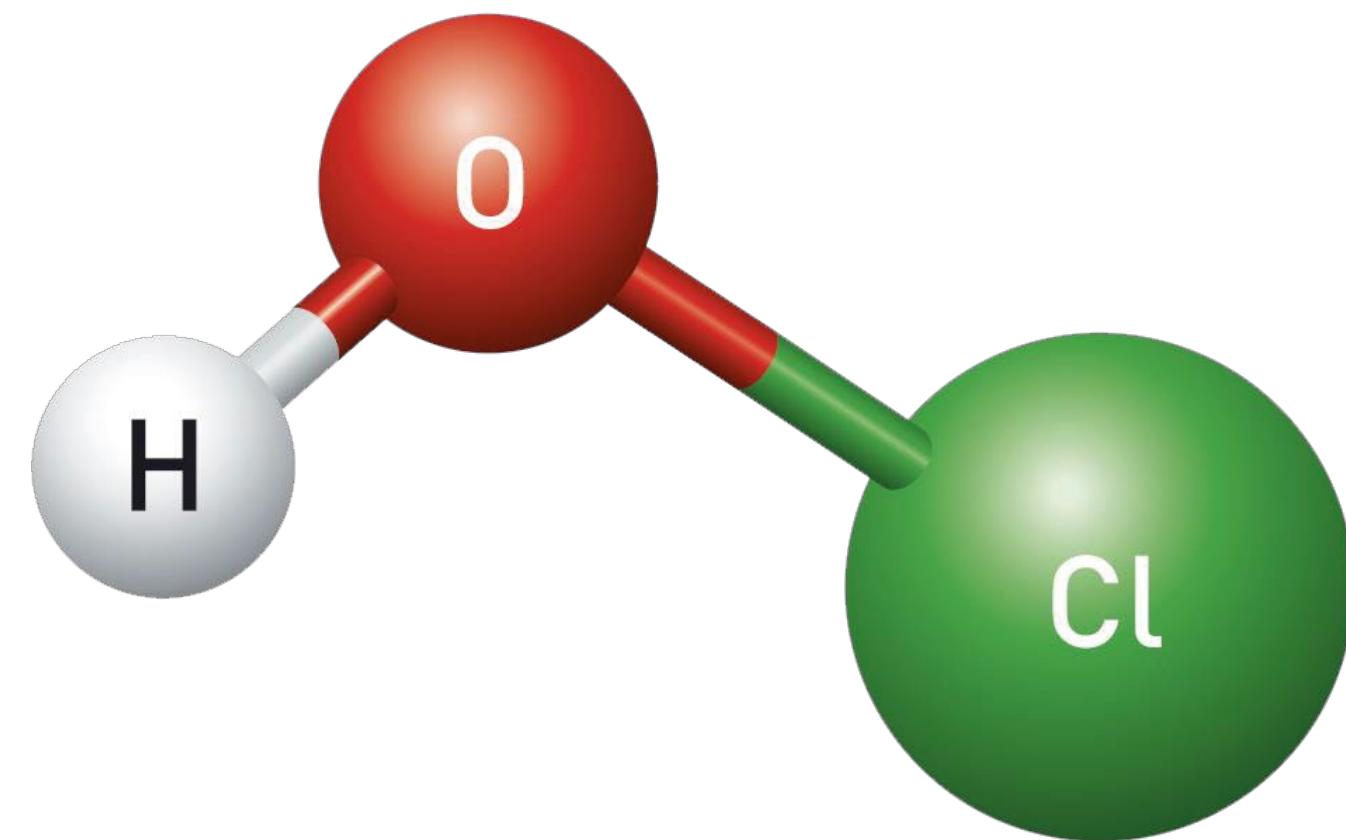
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HOCL Compared to Alcohol or Bleach

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.



This product as supplied passes:

BS EN 14476

BS EN 1276

BS EN 1650

BS EN 13727

BS EN 1656

BS EN 14204

BS EN 13697

BS EN 13704

BS EN 1500

HALAL CERTIFIED

Surface Shield™ has the article 95 registration which is carried out through ECHA - a European body that regulates biocides that can be used to meet the standards expected in this area.

Any product listed on the market and which is not on this list should not be sold.

It has also passed through ECHA pt1/pt2/pt3/pt4/pt5 certification.

Main group 1: Disinfectants

These product types exclude cleaning products that are not intended to have a biocidal effect, including washing liquids, powders and similar products.

PT1 Human hygiene

Products in this group are biocidal products used for human hygiene purposes, applied on or in contact with human skin or scalps for the primary purpose of disinfecting the skin or scalp.

PT2 Disinfectants and algaecides

Not intended for direct application to humans or animals. Used for the disinfection of surfaces, materials, equipment and furniture which are not used for direct contact with food or feeding stuffs. Usage areas include, swimming pools, aquariums, bathing and other waters; air conditioning systems; and walls and floors in private, public, and industrial areas and in other areas for professional activities. Used for disinfection of air, water not used for human or animal consumption, chemical toilets, waste water , hospital waste and soil. Used as algaecides for treatment of swimming pools, aquariums and other waters and for remedial treatment of construction materials. Used to be incorporated in textiles, tissues, masks, paints and other articles or materials with the purpose of producing treated articles with disinfecting properties.

PT3 Veterinary hygiene

Used for veterinary hygiene purposes such as disinfectants, disinfecting soaps, oral or corporal hygiene products or with anti microbial function. Used to disinfect the materials and surfaces associated with the housing or transportation of animals.

PT4 Food and feed area

Used for the disinfection of equipment, containers, consumption utensils, surfaces or pipework associated with the production, transport, storage or consumption of food or feed (including drinking water) for humans and animals. Used to impregnate materials which may enter into contact with food.

PT5 Drinking water

Used for the disinfection of drinking water for both humans and animals

Surface Shield™ HOCL - Key facts

- Safer than using alcohol and some quat based disinfectant it also has a quicker kill time -with most quat based disinfectants needing contact time of up to 5 minutes.
- HOCL as a formula is recognised all over the world.
- Kills 99.99999% (log7) of bacteria and 99.99% (log4) of viruses.
- Environmentally Friendly Product.
- Safe to use and kind to the skin. It is a water-based disinfectant that does not dry out your skin.
- Can be used on small objects including electronic devices.
- Effective against bacterial spores.
- Alcohol-free.
- No COSHH requirement for handling, storage or disposal.
- Instant Kill - proven to work in one second.
- HOCL which occurs naturally in the human body, it is PH neutral and non-hazardous. No harsh chemicals to dispose of.

What is 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 the perfect weapon to fight germs. Yet this powerful weapon is 100 per cent 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 is used to irrigate and disinfect wounds and is used in everyday settings including day-care centres and hospitals. HOCL is a weak acid that occurs naturally in our bodies.

The most powerful oxidising agent HOCL kills the pathogen by tearing down the cell membranes and proteins.

- 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 effective 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.
- Offers longer-lasting protection compared to alcohol-based disinfectants.
- Effective wound healing properties.
- Can be used as a surface sanitiser.
- Not fire hazardous, resulting in safer, cheaper and less time-consuming handling.
- Environmentally friendly.



	SURFACE SHIELD	ALCOHOL	HOUSEHOLD DISINFECTANT	BLEACH
ACTIVE INGREDIENTS	Hypochlorous	Ethanol	Chloroxylenol	Sodium Hypochlorite
Anti-bacterial, anti-fungal, sporicidal & fungicidal	✓	✗	✗	✓
No harsh chemicals	✓	✗	✗	✗
No significant label warnings	✓	✗	✗	✗
Active ingredient produced by human white blood cells	✓	✗	✗	✗
Multi-functional; disinfectant sterilant & sanitiser	✓	✗	✗	✗
No risk of alcohol poisoning or intoxication	✓	✗	✓	✓
pH neutral & non sensitising to skin & eyes	✓	✗	✗	✗
Suitable for use around children, pets and food	✓	✗	✗	✗
Air sterilising	✓	✗	✗	✗
Deodorises naturally	✓	✗	✗	✗
Non-flammable	✓	✗	✓	✓
Hazards	NONE		!	

SurfaceShield™ HOCL is the only fluid that is certified for use with all SafeGuard sanitising units. Using other liquids will void the warranty.

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