

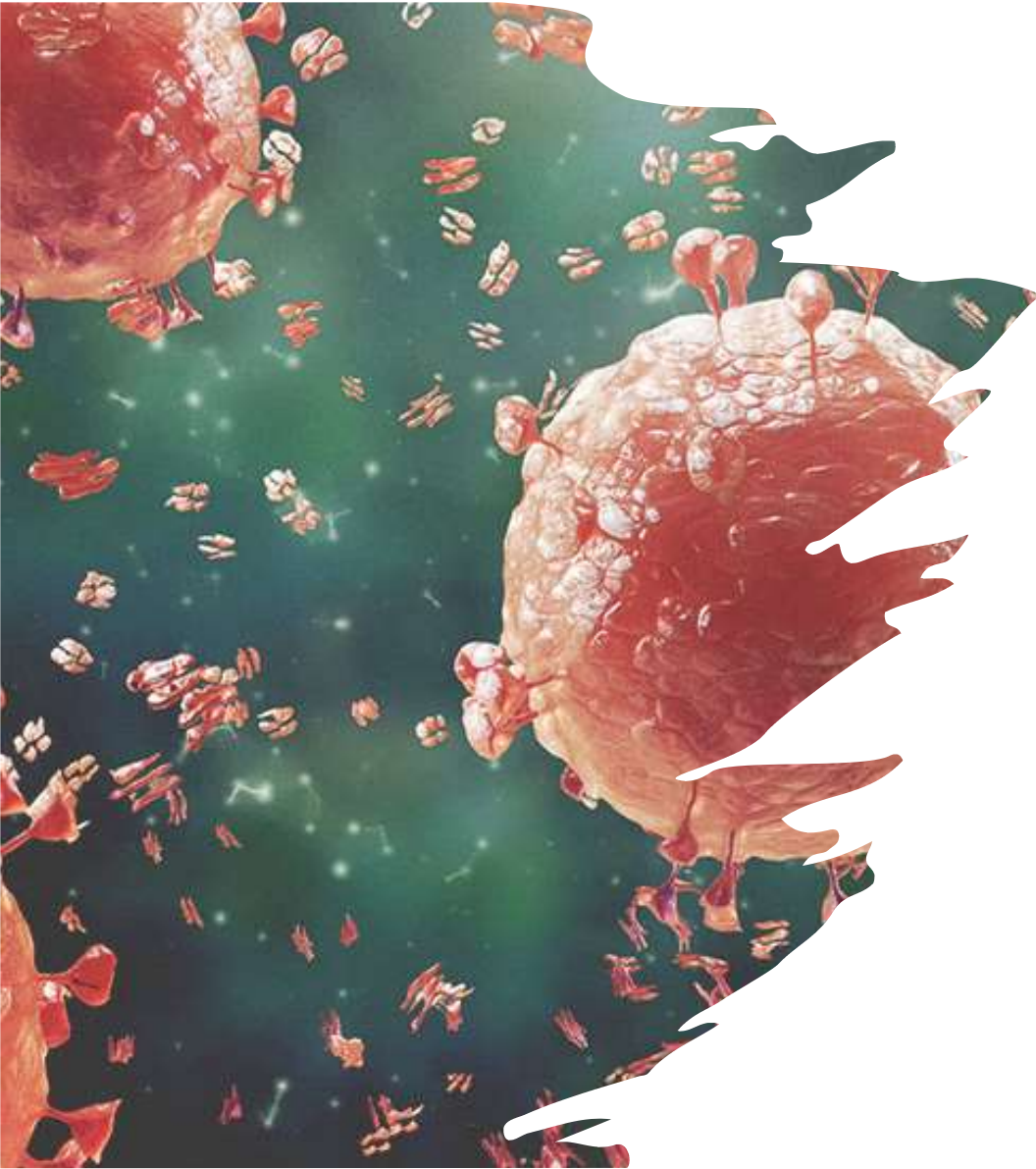
BSafe HOCL Sanitising Tablets

Converting Water
to Sanitiser



BSafe HOCLTM
formulated by doctors

The Problem



- **We all know about surface contamination & need to sanitise surfaces, machinery, equipment, hands, etc.**
- **However, most harmful pathogens are largely airborne**
- **Result =**
 - **Attach & contaminate peoples faces & masks & cause infection & makes them sick**
 - **= Social, production, & economic impact of sick staff**
 - **Contaminate of all surfaces, machinery, raw material, foods, etc. in food preparation & food processing plants**
- **Critical to ALSO sanitise air in work places**

The Problem



- ✓ Although the public is largely tired of sanitising, people & businesses still need to buy sanitisers
 - Sanitising is here to stay!!!
- ✓ The market has been sold large volumes of inferior & unsafe sanitiser
 - There is no way of testing the efficacy & safety of these sanitisers.
- ✓ There is known toxicity with alcohol based sanitisers and poor market control (eg methanol – little antimicrobial activity however present in some sanitisers while being highly toxic if consumed)
- ✓ Most people are tired of alcohol sanitisers
 - Many have develop an allergy & skin disorders to the alcohol sanitisers (e.g. Contact dermatitis)
- ✓ The economic impact of the pandemic has had enormous financial impact on everyone and on almost every business
- ✓ **The market is looking for an effective, safe, multipurpose, COST EFFECTIVE sanitiser**

What the market wants in a sanitiser

Effective against full spectrum of microbes, including prions	Must be highly effective
Multipurpose sanitiser	Can use on all surfaces, including CIP, COP, to sanitise hands, sanitiser air, sanitise food.
Can use for sanitising air of occupied spaces	To prevent airborne transmission & contamination
Can use to sanitise hands	No risk of skin sensitivity
Must be 100% safe	No toxicity risks & no special protective clothing & equipment required
Environmental friendly	
No corrosion	
Non flammable	
Able to measure efficacy of sanitiser	Quick, easy, & cost effectively – and any time
COST EFFECTIVE	Business & consumers around the world are struggling financially.

B Safe is made from HOCL

- ✓ **HOCL is a natural substance produced by own white blood cells as part of innate / natural immune system**
- ✓ **Every organ produces HOCL– brain, liver, kidney, heart, & skin.**
- ✓ **Infection – white blood cells rush to defend & produce HOCL to kill infection / pathogen (harmful germ)**
- ✓ **Biocidal efficacy – kills all germs - viruses (incl SARS-CoV-2), bacteria, bacterial spores, yeast, fungi, prions (proteinaceous structure), - even the most hospital / antibiotic resistant**
 - *“most effective biocide available to man today”*
 - More effective than alcohol sanitisers – alcohol cannot kill bacterial spores & prions
- ✓ **Natural, organic, biocompatible, & 100% safe – even for babies**



Advantages of BSafe HOCL

- ✓ **Anti-inflammatory properties**
- ✓ Hypoallergenic/Anti-allergic, antipruritic, antihistaminic, non mutagenic,
- ✓ Immunomodulatory properties
- ✓ No adverse effects on fibroblasts & keratinocytes
- ✓ Free of skin, oral, nasal, ocular, gastrointestinal, & pulmonary toxicity
- ✓ **EXTREMELY SAFE**

Comparing HOCL against other sanitisers

	Gas Chlorine	H2o2	Hypo Calcium	Chlorination	Chlorine dioxide	Ozone	UV	On-site Hypo	B-safe HOCl
Effective	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Safety	No	No	No	No	No	No	Yes	Yes	Yes
Chlorine Residue	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
TTHM / HAA5 Reduction	No	No	No	Yes	Yes	Yes	Yes	No	Yes
Chlorine / Bromate Reduction	Yes	Yes	Yes	Yes	No	?	Yes	Yes	Yes
Biofilm Removal	No	No	No	No	Yes	No	No	No	Yes
Algae Elimination	No	No	No	No	Yes	Yes	No	No	Yes
Micro flocculation	No	No	No	No	Yes	Yes	No	No	Yes
Elimination T & O	No	No	No	No	No	Yes	No	No	Yes
Easy to Maintain	Yes	No	No	No	No	No	No	Yes	Yes
Lifecycle Cost Low	?	No	No	No	No	No	No	Yes	Yes

Comparing HOCL against Alcohol Hand Sanitiser

	Alcohol hand sanitiser	HOCl
Kills MDR & hospital resistant pathogens	No	Yes
Kills bacterial spores	No	Yes
Kills nonenveloped viruses	No	Yes
Kills prions (e.g. mad cow disease/Creutzfeldt-Jakob's disease) (proteinaceous structure)	No	Yes
Kills protozoal oocysts	No	Yes
Kills bio-film	No	Yes
Flammable	Yes	No
Toxic	Yes (esp if made with methanol for eg)	No
Skin sensitivity	High (causing dermatitis urticaria)	None
Risk of poisoning if consumed	High Numerous reports of people, including children, being poisoned consuming hand sanitisers	None
Food sanitation - Can be used direct on food	No	Yes

Microbial Efficacy of BSafe HOCL

Microbial Efficacy	BSafe ^{HOCI}
Effective	Yes
Against all bacteria	Yes
Against all MDR, hospital resistant, penicillin resistant, ...	Yes
Against all fungi and yeast	Yes
Against all viruses (including Covid)	Yes
Against bacterial spores	Yes
Against prions	Yes
What pathogen / micro-organism is it unable to kill	None
Micro-organisms cannot build a resistance	Yes

Safety

SAFETY	Gas Chlorine	H ₂ O ₂	Hypo Calcium	Chlorination	Chlorine dioxide	Ozone	BSafe ^{HOCI}
Safety	No	No	No	No	No	No	Yes
Offers no toxicity	No	No	No	No	No	No	Yes
Is it biocompatible	No	No	No	No	No	No	Yes
Is it natural	No	No	No	No	No	No	Yes
Is it 100% safe	No	No	No	No	No	No	Yes
No special protection equipment needed	No	No	No	No	No	No	Yes
Is it produced within the human body	No	No	No	No	No	No	Yes
Is it mutagenic	No	No	No	No	No	No	Yes
No skin sensitizations	No	No	No	No	No	No	Yes
No skin irritations	No	No	No	No	No	No	Yes
free of any oral toxicity	No	No	No	No	No	No	Yes
free of nasal toxicities	No	No	No	No	No	No	Yes
No adverse effects on fibroblasts	No	No	No	No	No	No	Yes
No adverse effects on keratinocytes	No	No	No	No	No	No	Yes
it offers anti-inflammatory properties	No	No	No	No	No	No	Yes
it offers immunomodulatory properties	No	No	No	No	No	No	Yes
Can be applied safely in situ with people present	No	No	No	No	No	No	Yes

Environmental Safety

ENVIRONMENTAL SAFETY	BSafe ^{HOCI}
it is NOT flammable	Yes
it is safe for the environment	Yes
Does not kill multi-organisms	Yes
Can be safely disposed down the municipal drains	Yes
Spillage has no impact and has no risk to the environment	Yes
No special disposal requirements	Yes
Can be applied effectively and safely as a mist or fog to sanitise air spaces	Yes
Can be applied in situ and safely with people in the building	Yes
When applied, the premises need not be evacuated	Yes
No specialized safety packaging requirements	Yes
No special or safety storage requirements for	Yes

Sanitising Air

- Airborne pathogens is a major source of infection & contamination in all industries, including hospitals, medical practices, food processing, hospitality, schools, creches, manufacturing, packing houses, poultry production, etc.
- It is important to sanitise & to keep the air sanitised in work spaces to reduce infections & cross contamination
- Fog or mist with BSafe



Monitoring of Microbial Efficacy Capacity

- ✓ An important question to always ask WRT sanitisers – how do I know this sanitiser is effective?
- ✓ Is the market is expected to blindly accept the efficacy & safety of sanitisers in the market?
- ✓ We should be able to measure the efficacy of a sanitiser & not be forced to blindly believe the supplier.

- ✓ With the BSafe HOCL products, the user can monitor the efficacy, simply by dipping a test strip into the sanitiser & reading the colour indicator.
 - Ideal for QC & HACCP systems
 - Simply & convenient
 - Quick
 - Cost effective
 - Peace of mind

Advantages	Comment
Natural	HOCl is made by our own white blood cells as part of our innate / natural immune system. With an infection, white blood swarm & produce HOCl to kill infection / pathogen
Biocompatible	Every one of our organs produce HOCl as part of our natural immune system
Organic	HOCl is certified as organic by the USA, EPA (Environmental Protection Agency)
100% safe	International scientific papers reference HOCl as being 100% safe.
Multipurpose	All surfaces
Sanitation of air	By fogging / misting. Can apply & fog occupied spaces in situ
Food sanitation	Safe to use direct on food. No rinsing required.
Environmentally safe	Dissipates immediately in presence of organic matter
Hand sanitation	No toxicity & skin sensitivity issues as with alcohol sanitisers. HOCl also more effective than 70% alcohol.
Corrosion	Extremely low
Kills full spectrum of microbes / germs even most resistant	<i>"HOCl Most effective biocide available to man today"</i> 50 to 300 times more effective than bleach (NaOCl sodium hypochlorite)
Efficacy monitoring	Can monitor efficacy (ppm) any time by simply dipping a test strip = PEACE OF MIND

Advantages in Summary

Benefit	Comment
Converting tap water into sanitiser	Quick, easy, convenient,
Effective	Broad spectrum microbial kill. Kills ALL germs. Superior performance
Cost effective	Providing superior performance sanitation at a fraction of the cost = COST SAVINGS
Logistics & transport	Tablets – no transport of liquids. Easy & cost effective logistics & transport of tablets versus liquids No storage hassles & cost storing liquids
Hassle free - Simple, convenient, easy to make & easy to use & apply	Simply pop a tablet into container & add water to make high quality sanitiser Make as you require.
Can make large volumes of effective sanitiser	Can make many tens thousands of litres in minutes
Safety	Superior safety

Benefits of BSafe HOCI Tablets & Sachets

Industries – include:

- Medical – hospitals, clinics, medical & dental practices
- Food processing plants
- Hospitality industry – hotels, lodges, B&B,
- Catering industry
- Schools, creches,
- Gyms,
- Mining
- Agriculture – including pack houses
- Agriculture – animal production, including chicken production
- Water treatment

Converting Tap Water into Sanitiser

Disrupting & revolutionising the sanitation industry

1. Superior performance
2. Superior safety
3. Cost effective – saving the customer money