



Hypochlorous Acid (HOCl)

Electrosan
FACT SHEET

AT A GLANCE:

- HOCl has a kill rate of under 60 seconds against most bacteria, fungi and viruses.
- Electrosan Hypochlorous products are genuinely stabilised with a 12 month shelf life.
- HOCl is 100-300 times more effective than bleach.
- HOCl is pH neutral.
- HOCl is harmless to people, animals and the environment.
- HOCl can be used as an antiseptic, a disinfectant and a deodoriser.
- Tested to EN1276 (Bactericidal), EN14476 (Virucidal), EN13697 (Fungicidal) and EN13704 (Sporicidal)



It is lethal to every pathogen known to man yet completely harmless to humans and mammals.

It is a disinfectant that is 100 to 300 times more effective than bleach (NaClO example Milton) - **yet is non hazardous and non irritating!**

Bacteria cannot develop resistance to it - in fact, in scientific tests it has killed every pathogen (virus, bacteria, fungus, mould, etc.) which it has been tested against.

Not only is HOCl a quick acting disinfectant, but it is also a highly effective antiseptic. Why this is so is not really known but it is likely to be to do with the "redox" reaction, where the HOCl **tears** electrons from the bacteria thus destroying it.

Although an acid, it actually isn't acidic at all. It is in fact **pH neutral** (pH 7 - water), and it works at it's best as a pH neutral solution.

Electrosan Hypochlorous products are ready to use & achieves a **6-log reduction** (99.9999%) in microbial counts with < 60 seconds contact time. It is effective against bacteria, viruses, yeast, moulds and spores. It is compliant with British Standards 1276, 14476, 13697 and 13704.

KILLS GERMS IN SECONDS	YES	SECONDS
E. COLI	✓	0.1
CAMPYLOBACTER	✓	12
SALMONELLA	✓	12
LISTERIA	✓	12
INFLUENZA VIRUS	✓	12
S. AUREUS (inc MRSA)	✓	12
NOROVIRUS	✓	12
BACILLUS CEREUS	✓	12
C. DIFFICILE	✓	60

HOCl kill times.



It is also **approved by the European Biocidal Products Directive**. Our HOCl is a revolutionary product, already being used by BUPA, Nuffield Health, food production and veterinary practices. HOCl is **skin safe, even on babies**.

It's uses include: -

- > Skin antiseptic & sanitiser
- > Surface disinfection
- > Treatment of water systems for Legionella Pneumophila
- > Fruit and vegetable wash
- > Food preparation disinfection
- > Disinfection of areas infected by vomit and diarrhoea
- > Soft furnishing disinfection
- > Urine deodoriser
- > Deceased animal disinfection

History of HOCl

Hypochlorous Acid was discovered by chemist Antoine Ballard in 1834 and has been in constant use since. It was used to treat soldiers wounds during WWI, where it was made in-situ and used immediately as it had a short shelf life.

Qualkem in partnership with Aqualution has developed one of the few genuinely stabilised HOCl products. We are one of the only companies to stabilize using unique ECA technology, ensuring a 12 month shelf life. All products are manufactured in the UK, distributed under the Electrosan brand, this is available in 100ml Antiseptic and 750ml Disinfectant, other bottle sizes are available on request and volume.



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Qualkem t/a Repclif Chemical Services Ltd
Macon Way
Crewe
Cheshire
CW1 6YU
01270 587616
www.qualkem.com



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