



AquaTECK[®]



AquaTeck utilizes nature's own sanitiser to create a sustainable, effective and environmentally-friendly disinfectant solution.

AquaTeck is made by unlocking the potential of salt water and electricity to create a highly effective sanitising solution: a dilute hypochlorous solution (HOCl).

- HOCl is produced naturally in the body by specialised white blood cells (neutrophils) as a basic defense against pathogens.
- HOCl is more effective than any other chlorine disinfectant at a dilute solution, so can be used at a low concentration (~150ppm or 0.015%) that has no harmful effects on humans, animals, plants or aquatic life.
- HOCl is 80 to 120 times more efficacious than sodium hypochlorite (bleach).
- This is because HOCl is a small, uncharged molecule which can diffuse through cell walls and membranes due to it being a small, uncharged molecule.
- Once inside the pathogen cells, HOCl has a powerful redox potential of ~1100 mV (millivolts), making it highly reactive against an array of biomolecules including proteins, lipids and nucleic acids such as DNA and RNA.
- This allows it to efficiently kill even the most durable of pathogens with ease.

Salt, water and electricity is all that's required and nothing else is left behind.

- The only energy required to produce AquaTeck is the standard electrical current needed to power the diamond electrolytic flow cell that converts saltwater into AquaTeck solution.
- This makes AquaTeck one of the greenest sanitising products on the market.
- Producing chemicals often generates large amounts of CO², these products often then cause further environmental damage when they leave behind harmful residues that are washed back into nature.
- AquaTeck only leaves behind saltwater once the small amount of HOCl has been used up in destroying pathogens or decomposes on exposure to the light and the environment.

Not only is AquaTeck safe for the environment, but safe for you, your friends & family.

- AquaTeck requires no COSHH training to use as it is completely safe to be around, removing the requirement to have potentially harmful chemicals in the home or workplace.
- Our solution is completely non-corrosive and non-irritant, so can be used on a variety of surfaces without the requirement to wear PPE (gloves etc.) when being used.

Connor Baumann

*Msc Molecular Biology & Biotechnology
BSc Biochemistry & Microbiology*