



Engineering for
Health & Hygiene™

An effective and natural approach to improving environmental health and reducing food spoilage.

Ecas4 technology challenges existing systems in the area of health and hygiene.

The Ecas4 system is completely safe for all humanity; it is non-hazardous, non-corrosive and has a positive impact on our environment.

The Ecas4 reactor technology produces superior anti-bacterial properties similar to the human natural defence mechanism that our immune system relies upon. Our equipment and systems are easy to work with, fully automated and able to be remotely monitored.

The Ecas4 system produces a broad-spectrum metastable disinfectant – highly effective, genuinely pH neutral and 100% biodegradable.

The Ecas4 system is an electrochemically-based device for the in situ production of an aqueous solution (the Ecas4-anolyte) that contains Hypochlorous acid.

This metastable active agent is also produced by the human immune system (white blood cells) in order to fight against micro-organisms.

The main advantage of the Ecas4-anolyte is its safety: it can be used without particular precautions and once it has exerted its biocide activity, the solution spontaneously reverts to diluted brine.

The Ecas4-anolyte is non-corrosive, non-hazardous and biodegradable; it has received approvals for its application in potable water disinfection as well as in the food industry (FSANZ).



Non-toxic

The Ecas4-anolyte solution is applied as sanitiser in the food industry. The application process is suitable for farm or nursery through to the food processing and retail facilities for organic or non-organic surfaces.

- + Poultry, red meat and seafood
- + Fresh fruit and vegetables and plants
- + Food processing equipment surfaces
- + Drinking water treatment

System Specifications

Ecas4 anolyte solution is highly effective against:

- + Bacteria (eg E.coli, Listeria, Campylobacter, Salmonella, Staphylococcus aureus)
- + Viruses
- + Fungi and
- + Mono-cell algae

Highly effective

The antimicrobial efficacy of the Ecas4-anolyte is partially dependent on 'non-specific' short living (metastable), highly reactive oxidative moieties. These components are able to react with any organic compound present within the environment.

Where a high organic load is likely, a continuous delivery is required to maintain a high level of disinfection potential: thanks to the Ecas4 system, the disinfectant can be synthesized where and when required.

Easy life

No more problems due to storage and handling of hazardous chemicals; no waste due to the deterioration of chemical products.

Remote control capability

Once installed within new or existing systems, the Ecas4 treatment device can be remotely monitored.

Customised

The Ecas4 system can be individually designed according to client requirements.



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