



Engineering for
Health & Hygiene™



Ecas4® Anolyte Broad Spectrum Sanitiser

Ecas4 Anolyte is a highly effective, broad spectrum and certified organic sanitising solution, with neutral pH, that kills 99.9% of germs.

It is obtained through the electrochemical activation of a diluted, slightly saline solution in a patented 4-chamber cell, and contains active chlorine mainly in the form of hypochlorous acid (HOCl).

Unlike other technologies on the market, Ecas4 has aimed at the synthesis of a highly reproducible and reliable Anolyte, characterized by a genuinely neutral pH. This is probably the main difference with all other types of 'electrolyzed water', and it is what makes the Ecas4 Anolyte less corrosive and safer for the health of any superior organism (for example, humans).

Since the HOCl molecule has no electric charge and has a relatively low molecular weight, it is more able to penetrate the cell wall of microorganisms, compared to other chlorine species such as hypochlorite. In addition, HOCl reacts faster than other chlorine species, both in oxidation and substitution reactions, with organic matter, including the critical components of bacterial cells.

The Ecas4 Anolyte is very user-friendly, being applicable as a solution, fog, mist or spray, and even in frozen form (ECAS ice).

Active ingredient:

300 mg/L available chlorine present as 80% hypochlorous acid / 20% sodium hypochlorite mixture, with neutral pH at the time of production.

Ecas4 Anolyte is up to 10 times stronger than the 0.1% bleach solution recommended by the Australian Government Department of Health (Environmental cleaning and disinfecting principles released on 10/03/2020).

Ecas4 Anolyte is non-toxic and environmentally safe, it does not require the use of goggles, gloves, or Hazchem signage.

Ecas4 Anolyte is presently used as a general sanitiser for:

- + Hard non-porous surfaces including walls, floors, bench tops, door handles, light switches and other appropriate equipment.
- + Fruit and vegetables, by either spraying or soaking the produce in a 10% solution obtained by diluting the Anolyte with drinking water, for up to 5 minutes – no rinsing required.

Available in 500mL, 1L, 5L, 10L, 15L, 20L containers; other sizes can be organised on request.

For further information, refer to the [Material Safety Data Sheet \(MSDS\)](#) available from our website.



Frequently Asked Questions

What is Ecas4 Anolyte?

Ecas4 Anolyte is an environmentally-friendly, non-hazardous, broad-spectrum sanitiser. It is an electrochemically activated solution, produced by processing a diluted saline solution. The base constituents are water and table salt (pure sodium chloride) chemically modified by electricity. The result is a solution containing active chlorine, mainly in the form of hypochlorous acid.

Where can I use Ecas4 Anolyte?

You can use Ecas4 Anolyte on hard, non-porous surfaces including walls, floors, bench tops, door handles, light switches and other equipment. All surfaces should be cleaned prior to application of the Anolyte, otherwise the efficacy of the solution will be reduced. Spray the solution onto the surface and leave it for at least 1 minute before wiping if applicable. Remove any excess solution after 5 minutes from stainless steel and other metal surfaces - longer periods may cause stains or damage.

What is hypochlorous acid?

Hypochlorous acid is a molecule that is produced in our body when our immune system has to fight against invading microorganisms. It is a natural product, very effective but also quite unstable.

Ecas4 has developed a way to stabilise this solution for a longer effective life.

How do I sanitise my fruit and vegetables?

Simply dilute the Ecas4 Anolyte to 10% with tap water (e.g. 50 mL of Anolyte in 450 mL of water) and soak the produce for a few minutes. No rinsing required.

Should I add anything to the Ecas4 Anolyte solution?

Do not mix the Ecas4 Anolyte with other chemicals.

How long does Ecas4 Anolyte take to have an effect?

It depends on the specific microorganism since each species has a unique structure and resistance. Killing effectiveness is normally 99.9% in 60 seconds, but may be greater with longer contact times. If the surface to be sanitised is dirty, the effectiveness will be reduced and a longer contact time will be required. Please follow the directions on the label and, in general, apply on previously cleaned surfaces. Remove excess solution within 5 minutes if the solution is applied on metals.

Can I use Ecas4 Anolyte on my hands?

You are not required to use gloves, goggles, or any other protective equipment when handling the Anolyte.

Why not just use chlorine / bleach?

Hypochlorous acid is the killing component of bleach but, because of the high pH of bleach, its content is very low. Ecas4 has developed a technology to synthesise it from salty water, through a rigorous control of parameters. It has been reported that hypochlorous acid is about 80 times more effective than sodium hypochlorite at the same concentration.

Is Ecas4 Anolyte safe?

After the solution has attacked bacteria and pathogens, it reverts to a slightly saline solution. You will find a safety data sheet (SDS) on our website (ecas4.com.au).



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