



APPLICATIONS FOR HOCl IN DAIRIES



Hypochlorous acid can be used at every stage of the milking process, from teat treatment to machine sanitation and even during the final bottling process. It is safe for direct skin contact and human/animal consumption. In fact, hypochlorous is naturally produced within a mammal's body as part of the immune system response to fight off invading pathogens.

Leave-on disinfectant for milking equipment



Pre- and post-milk teat wash to prevent mastitis



Dose directly into water troughs to prevent waterborne diseases



Sanitize milk bottles and equipment during the bottling process

WHAT IS HOCl?

Hypochlorous acid is a non-toxic chlorine-based disinfectant that has been in use since World War I. It is the most effective form of chlorine and the active sanitizing ingredient in bleach, without any of the harmful side effects. Hypochlorous is used in dentist offices, airplanes, hydroponic systems, veterinary offices, hospitals, water treatment plants, the food industry, and more.

The ingredients for hypochlorous are simply water, salt, and vinegar. These inputs are circulated through an electrolysis cell, which breaks apart the chemical bonds of H₂O and NaCl and recombines them to form HOCl (hypochlorous acid). This process only takes a small amount of electricity and depending on the ppm strength of the solution, less than 10 minutes.

Part of what makes hypochlorous so unique is its disinfecting AND healing properties. Not only does it quickly inactivate the majority of common pathogens, it also speeds up the body's natural healing processes by preventing infection and stimulating cell growth.

ONSITE GENERATION

With the Hypo 7.5, you can generate up to 2 gallons (7.5 liters) of 200, 500, or 1,000 ppm hypochlorous acid at a time. The machine is durable, easily transportable and can be operated off-grid with a battery pack or solar system. The Hypo 7.5 is made in the USA and has a 2,000 hour / 5-year warranty.

Onsite generation is highly sustainable for several reasons. The cost savings are substantial compared to purchasing bottled products; the Hypo 7.5 can produce a liter of HOCl for roughly \$0.04/liter. Owning a generator removes the need to rely on external supply chains for essential commodities (eg; sanitizer, topical antiseptics). The fragility of this dependence was particularly highlighted during the COVID-19 pandemic and will continue to be an ongoing concern for many small-scale producers. Additionally, onsite production reduces waste, plastic bottle usage, and carbon emissions from shipping transport.

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