

Understanding Cold Fogging

Hypochlorous Acid a Solution to Use for Cold Fogging

Hypochlorous acid (HOCl), also known as electrolyzed water, is considered by the FDA to be “the form of free available chlorine that has the highest bactericidal activity against a broad range of microorganisms” (US FDA, 2015). HOCl has no toxic material disposal requirements and, according to the OSHA Hazard Communication Standard, is not considered to be hazardous waste, adding yet another advantageous element to HOCl use¹.

The additional protein denaturing activity of HOCl and, in particular, its inactivation of prion proteins, also suggests new opportunities for the design and execution of disease control measures in health care institutions².

The reason hypochlorous acid is such an effective oxidant is because it carries no electrical charge. In contrast, the hypochlorite ion (bleach) carries a negative charge. Because germ surfaces also carry a negative charge, they initially repel each other. It takes up to half an hour for bleach to do the job, whereas hypochlorous acid's lack of electrical charge allows it to penetrate the protective lipid barrier *surrounding the viral particles quickly and to destroy the proteins in a matter of seconds.*

DRUG NOTIFICATION FORM
FORMULAIRE DE DÉCLARATION DE MÉDICAMENT

DIN: 02362546

ULTRA-LYTE

DISINFECTANT (Barn), DISINFECTANT (Food Premises), DISINFECTANT (Hospital/HC Facilit , DISINFECTANT (Hospital/HC Facilities), DISINFECTANT (Institutional/Industrial)

Victory Global Supplies Inc. is a Associate distributor to other wholesalers accross canada for ULTRA-LYTE product !!! HEALTH CANADA APPROVED



How safe is it?

Hypochlorous acid, unlike chlorine bleach, is 100% safe, non-irritating and not corrosive. Various concentrations of hypochlorous acid are used in the food industry, for eye and wound care and as a surface disinfectant. So, if it gets on your skin or in your eyes, it will not burn. Even if it were accidentally ingested, it is non-toxic.

What Concentration ?

Current recommended concentration for bioaerosol disinfecting at a concentration of 200 ppm.

200 ppm. The solution is a weak acid with a pH between 5 to 7. There are test strips available to test the ppm, as well as to test the pH also available at Victory Global Supplies Inc.

How does fogging work?

The solution is placed into the reservoir of our ultra-low volume fogging machine creating a mist (not a spray) of the solution.

The machine is able to disperse the HOCl in a particle size of <10 microns .

Surfaces must be clean and dry prior to cold fogging. So, wipe down your chairs, counters, lights, etc. with whatever you normally use to disinfect them first.

Place the VGS System in the center of the room and switch timer on 20 min per 2000sqft (7ft ceiling height)

The fog will fill the space and do the disinfecting without moving the unit .



Can I Cold Fog PPE?

While the intent is to clear the viral particles in the air, isolation gowns and shoes can safely be cold fogged with HOCl, although efficacy has not been tested. It is very important to note that N95 masks become ineffective if they get wet. Moisture will destroy the electrostatic charge in the filter that creates the true protective barrier between the virus and your respiratory system. It is safe to cold fog your street clothing and scrubs; however, it is not a substitute for laundering them.

How Can Cold Fogging Be Used With Other Methods?

Cold fogging with electrolyzed water is often confused with electrostatic spraying, a method for surface disinfection and not for aerosols. HVAC filters and room filters with HEPA technology and UVC light are all great adjuncts for cleaning and recirculating the air and can be used as additional protection along with cold fogging. Heat fogging uses different machinery and is not appropriate for indoor use.



Victory Global Supplies Inc.
Albert D'Amore
Director Co-Founder
info@victoryglobalsupplies.com
or call 780-920-6245