Wheelio Products

Briotech Benefits







Reviewing the Facts of the EPA, EHS, and CDC Guidance and What That Means For the Re-Opening Planner

- COVID can spread through air and is less likely to spread on surfaces.
- To date, no products have been approved for air decontamination, and agencies only recommend products for surfaces.
- Therefore, it is up to the business's COVID response planner to use their best judgement on how to proceed on developing a re-opening plan and how they can reduce viral load.
- When using a disinfectant it's reasonable to assume that it will become aerosolized within the environment's air.
- According to Enivronmental Health and Safety (EHS) guidance it's important to research the Active Ingredients and the Safety Data Sheet of any given Disinfection
 - EHS states, "Avoid inhalation over-exposure" of a heavy spray pattern from becoming another liability by chosing the best-in-class Active Ingredients.

BRIOTECH CAN HELP

SOURCE: ehstoday.com click here to view

A EPA, OSHA, EHS Warning OSHA







Many common household cleaning products contain chemicals that can harm your body and some of these chemicals can:

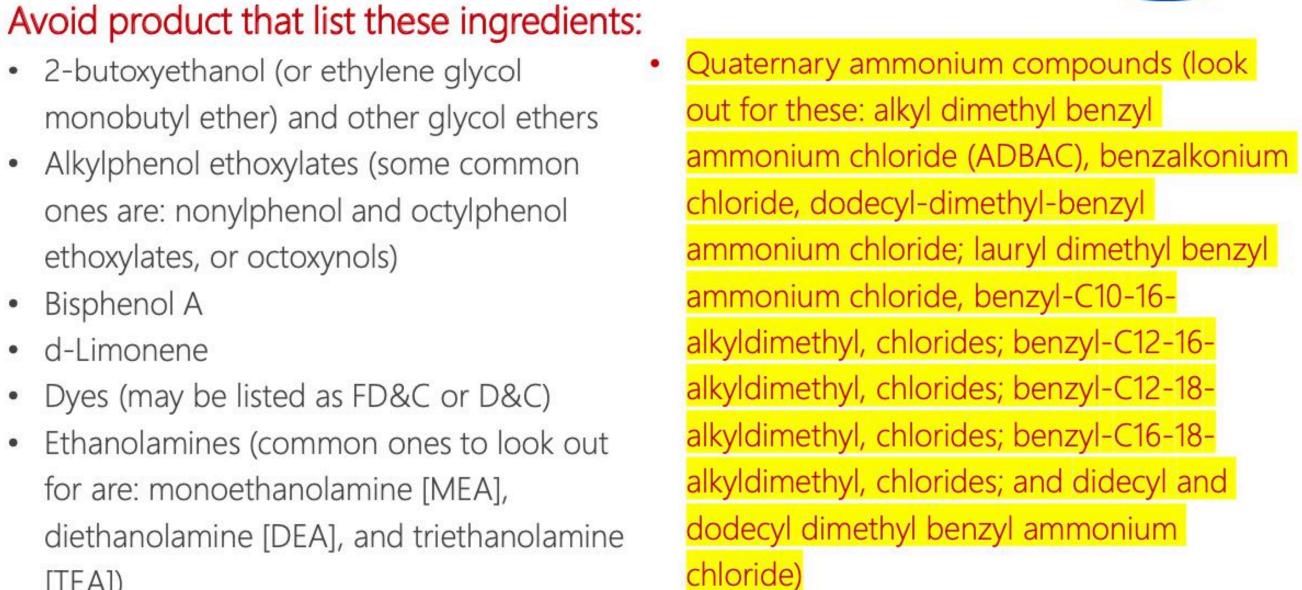
- Cause or trigger asthma
- Cause cancer
- Irritate or chemically burn your lungs and skin
- Interfere with functioning of your liver and other organs
- Affect your reproductive system
- Affect the health of unborn babies

The risk of experiencing these health effects depends on:

- How hazardous the product is and how concentrated it is
- How often the product is used
- The amount that gets into your body
- The age, health, and gender of the person using the product

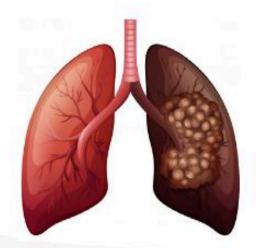
• 2-butoxyethanol (or ethylene glycol monobutyl ether) and other glycol ethers

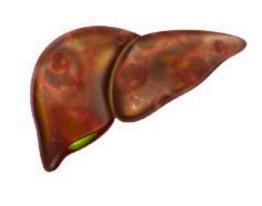
- Alkylphenol ethoxylates (some common ones are: nonylphenol and octylphenol ethoxylates, or octoxynols)
- Bisphenol A
- d-Limonene
- Dyes (may be listed as FD&C or D&C)
- Ethanolamines (common ones to look out for are: monoethanolamine [MEA], diethanolamine [DEA], and triethanolamine [TEA])
- Fragrances
- Parabens
- Phthalates
- Pine or citrus oil



- Triclocarban
- Triclosan
- Bleach or sodium hypochlo











Level Up to a Healthy Lifestyle

	Briotech HOCl	Hydrogen Peroxide	Chlorine Dioxide	Sodium Hypochlorite (Bleach)	Ozone	Isopropyl Alcohol	Glutaraldehyde
Kills Bacteria & Virus							
Non-Corrosive		X	×	X	×		X
Ready-to-Use					×		X
Deodorizer			×				X
Storage Cautions		×	×	X	×	×	X
Non-Flammable			×			X	
Safe for Use (no PPE)		×	×	X	X	X	X
Easily Disposed			×	×	×	×	×

The Problem

- A 20-year study released in 2018 by the American Journal of Respiratory and Critical Care Medicine showed that cleaning with bleach once a day is as damaging to your lungs as smoking a pack of cigarettes a day.
- A study released in 2017 by the European Lung
 Foundation found that nurses who disinfect with Quats
 just ONCE a week experienced a 32% increased risk of
 developing COPD, which is directly linked with lung
 cancer.
- The EPA is currently recommending that traditional household cleaners and disinfectants be avoided as they can lead to serious health complications including asthma, cancer, chemical burns, reproductive issues and more.
- Many types of cosmetics, for instance, contain parabens and <u>phthalates</u> — substances that the Campaign for Safe Cosmetics says can disrupt hormone function and may raise the risk of some types of cancer. -



The Solution: HOCl

We can offer the following attributes...

- All Natural a substance found in the human body
- Clean Label only 3 organic ingredients
- Eco-Friendly no harsh chemicals to manufacturer & packaged in recyclable container
- Pure free from additives, preservatives, fragrances, and allergyinducing chemicals
- Effective Powerful biocide, virucide & bactericide
- Non-irritating / non-corrosive / non-flammable / non-hazardous
- Same active ingredient can be used across product platforms for eye care, disinfection, oral care, and skincare

Our ingredient is HOCl (Hypochlorous Acid) and it is the <u>perfect ingredient</u> to solve a world of problems!

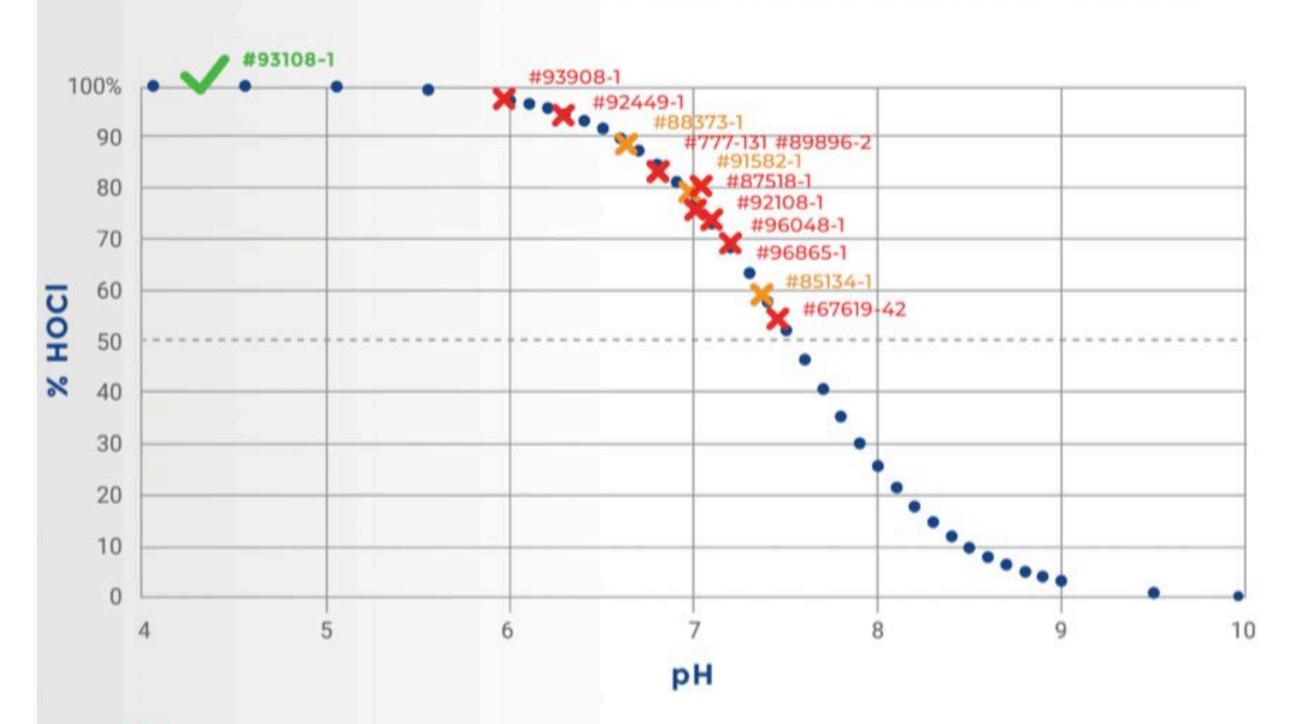


COMPARING ACTIVE INGREDIENTS OF COMMON DISINFECTANTS

	Authentic Pure-Form HOCI	Alcohol	Bleach	Peroxide	Quats	Chlorhexidine	Glutaraldehyde
Antibacterial	✓	~	~	~	V	~	~
Virucidal	✓	~	~	~	✓	×	~
Fungicidal	✓	×	~	~	~	X	~
Non-Irritant for Skin/Eyes/Mucosal	✓	×	×	×	×	×	×
No Wait/Operational Disruption	✓	×	X	×	×	X	X
Non-Hazardous by 29 CFR 19101200	✓	×	×	×	×	×	×
No PPE Required for Handling	~	×	X	×	×	X	X
Non-Drying/Non-Allergenic	✓	×	×	×	~	×	×
Food Contact Safe	~	×	×	×	×	X	X
Rinse-Free	✓	~	×	×	×	×	×
Environmentally Friendly	✓	×	X	~	×	X	X
Biodegradable	✓	~	~	~	×	×	×
Non-Explosive	✓	×	X	×	V	~	~
Non-Flammable	✓	×	~	×	×	~	~
Does not Stain/Bleach	✓	~	×	×	~	X	~
No Resistant Strains	~	×	~	~	×	~	~
Odor Control	✓	×	~	~	×	×	X
Removes Biofilm	✓	×	×	~	×	×	X



ANALYZING % HOCL AT A GIVEN pH AT ROOM TEMPERATURE FOR LIST N HOCL PRODUCTS

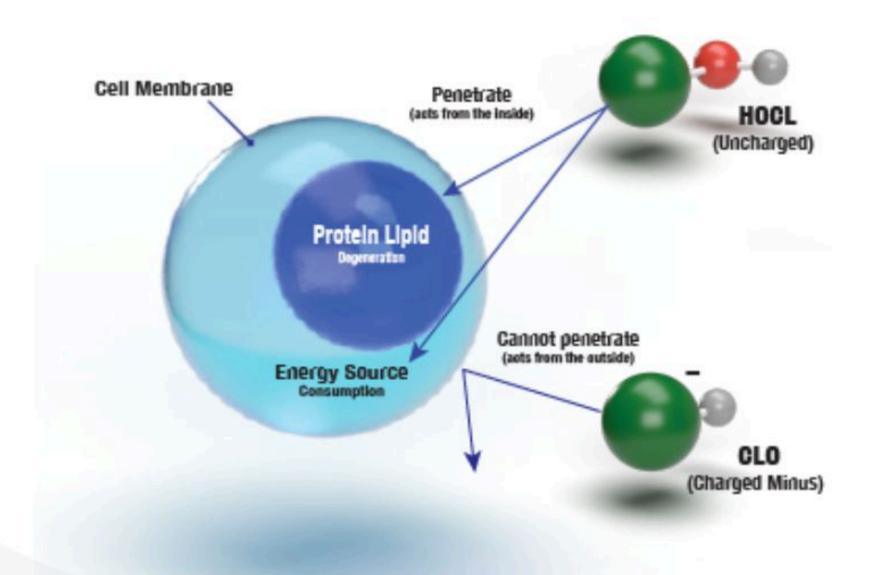


- Non-Transparent Labelers: List N impure HOCI makers that do not list Hypochlorite contamination in their Safety Data Sheet
- List N impure HOCI that do list Hypochlorite contamination, including hazard warnings.
- Only Briotech makes pure HOCI. An average of 70 batches analyzed shows an average pH of 4.4. This is Authentic pure-form HOCI at a skin-neutral pH.

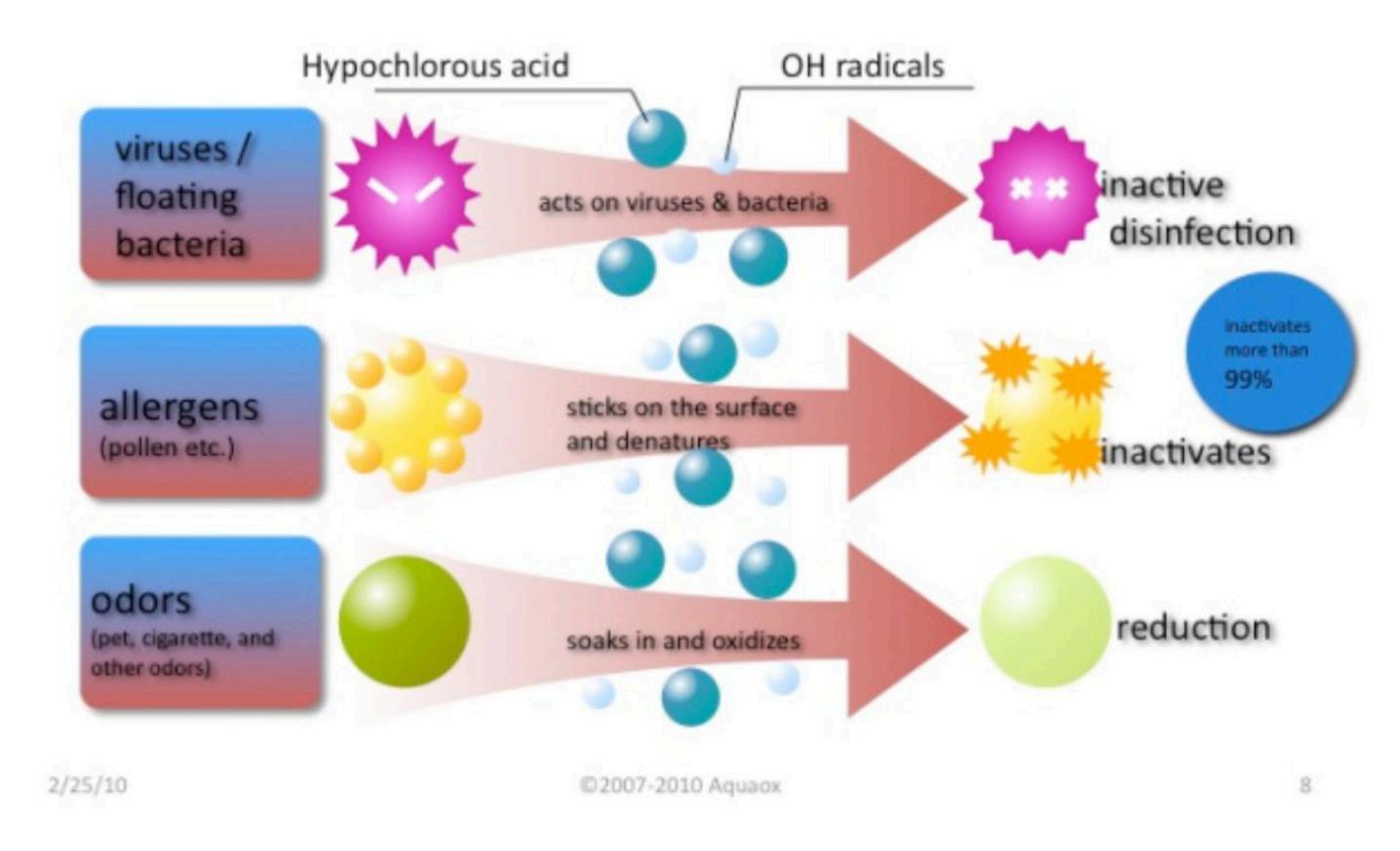
HOCl — Efficacy Against Pathogens

HOCl is works through oxidation of proteins, DNA, and carbon groups of non-mammalian compounds.

HOCl is "charge neutral" and can penetrate the cell walls of pathogens much more efficiently than bleach (which is charge negative).



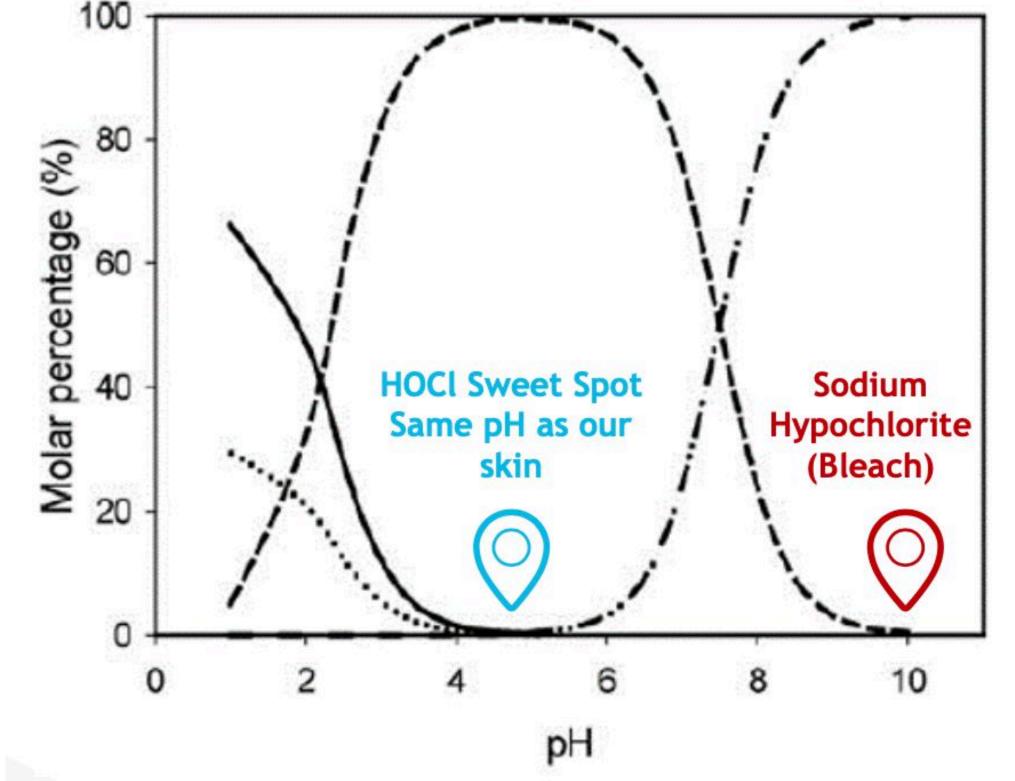
Disinfecting airborne microbes

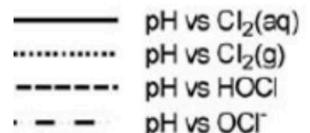


HOCl - Chemistry of Aqueous (Chlorine)

Chlorine exists in three (3) different states depending on the pH level.

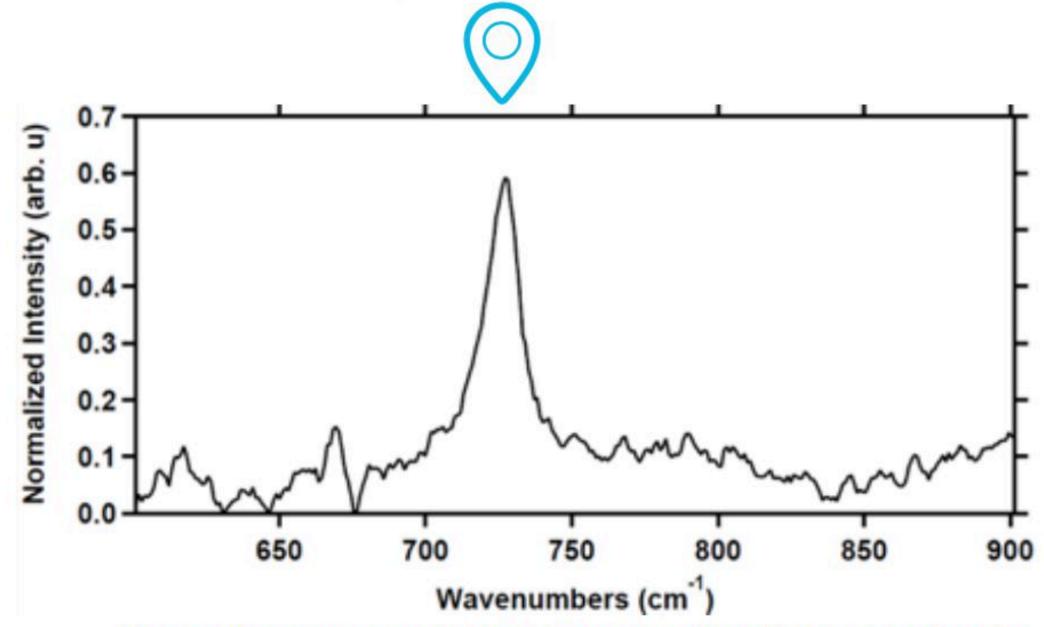
Briotech manufacturers at the right pH to ensure no contaminates.



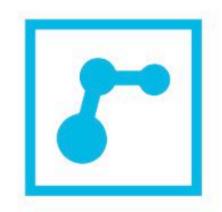


BRIO HOCl™ optimum – pH 4.4, ORP 1140 mv Most competitors – pH 6 – 7.5 HOCl Calculator (here)

Purity of BrioHOCI*



*Raman Spectroscopy by the University of Washington Molecular Engineering Laboratories, Seattle WA



HOCl: Why Isn't It A Household Name? (Yet)

- Patent Law All-natural ingredient that could not be patented
- Moore's Law Computing power that did not allow for the precision control required to maintain a pure and stable form of HOCl until 2010
- Industry didn't call for it Oil & gas and agriculture required onsite generation and there weren't high standards for purity for scaled HOCI
- Household adoption & acceptance of Bleach, Quats and Ammonia

The challenge was disrupting these barriers so that HOCl could excel in the market. HOCl required three (3) things:

PURITY - Directly Relates to Safety & Efficacy

SCALABILITY - Directly Relates to Cost & Supply

STABILITY - Directly Relates to Use & Reliability

BRIOTECH HAS ALL THREE!

