



## GENERATING PROCESS OF HYPOCHLOROUS ACID A SUPERIOR CHEMICAL DISINFECTANT

MaxAssure's "Quick Kill" Enviolyte Hypochlorous Acid Generator processes salt and water through electrolysis. This is where salt (NaCl) in a brine is electrically separated into its two main ions; Sodium (Na) and Chloride (Cl). The separated ions are then mixed with fresh water (Hydrogen (H) and Oxygen (O)) resulting in two very useful solutions; Hypochlorous Acid (HOCl) and Sodium Hydroxide (NaOH). HOCl is a strong disinfecting solution while NaOH contains and carries away impurities, and thus eliminating residue from the hypochlorous acid. The "Quick Kill" system is PH neutral and field adjustable.

- A. Hypochlorous Acid, aka anolyte, is a highly potent oxidizing agent. Its neutral charge allows for easy binding to the cell membrane of microorganisms, destroying the membrane and killing the cell. Studies have shown HOCl is highly effective against resistant strains of bacteria and viruses such as C-Diff, MRSA, HIV, TB, and VRE while most chemical disinfectants are repelled by their opposing electrical charges. A natural, non-toxic solution, HOCl effectively and efficiently kills human corona virus in seconds and has been demonstrated to be 80-100 times more potent than liquid bleach.
- B. Sodium Hydroxide, aka catholyte, is a PH basic solution that acts as an effective degreasing agent, surface and glass cleaner, and all-around cleaning solution. NaOH is commonly found as the only active ingredient in many of today's commercial cleaners. As a negligible (.5%) byproduct of HOCl generation, it may be reserved or put to drain.

To put it simply: Saltwater + Water + Electricity = HOCl...A solution approximately 100 times stronger than liquid bleach but safe enough to be used for wound care, food washing, hand sanitizer, and even mouthwash.