



## What's wrong with using Bleach and Quats to sanitize and disinfect?

Traditional sanitizer/disinfection approaches like chlorine bleach and quarternary ammonium compounds, or quats, are toxic to humans, corrosive to materials and harm the environment they are released to. NaDCC tablets that produce hypochlorous acid (HOCL) when added to water are the less toxic alternatives to chlorine bleach & quats.

- Because chlorine bleach is a hypochlorite (-OCL) and is highly reactive, impure, unstable and sensitive to light and temperature. Quats & chlorine bleach exacerbate or cause asthma.
- Chlorine bleach concentrate begins to degrade from the moment it's manufactured and, within a month, easily loses a third or more of its activity. When diluted bleach is effective for only hours.
- In addition, bleach and quats are highly corrosive to metals and other surfaces, extremely toxic to the environment, and unsafe for humans to handle or inhale its fumes.

## FRIGHTENING FACTS

According to the Center for Disease Control and Prevention (CDC):

- ▶ More than two million Americans develop antibiotic-resistant infections each year, resulting in 23,000 deaths
- ▶ Each year 20% of the US population contracts the flu and tens of thousands of people are hospitalized.
- ▶ Norovirus is the #1 cause of acute gastroenteritis outbreaks worldwide.
  - Norovirus affects about 21 million Americans annually
  - Leads to over 2 million outpatient/ER visits or hospitalizations, and 800 deaths
  - Touching a contaminated surface, then touching your mouth, spreads 61% of diarrhea or vomiting outbreaks.
  - There is no vaccine to prevent norovirus infection.
- ▶ As of March 2015, half the estimated 25,000 individuals infected with Ebola virus ultimately died.
- ▶ The common cold, Rhinovirus, is the main reason the majority of our population misses school or work every year.



IT'S TIME FOR A **PROACTIVE SOLUTION**  
TO INFECTIOUS DISEASE PREVENTION—  
ONE THAT IS **QUICK, SAFE AND EFFECTIVE.**