



Sustainable Technology Evaluation and Demonstration (STED) Program

Portable On-Demand Hypochlorous Acid Disinfectant Cleaners



Technology Description

Small portable and inexpensive tabletop devices that use electrolysis of onsite water, vinegar, and salt to produce a hypochlorous acid hospital-grade disinfectant multipurpose cleaner.

Potential Impact

- Potential to replace multiple cleaning products (disinfectants, surface cleaners, degreasers, glass cleaners, etc.) with one product.
- Reduced chemical storage and tracking.
- EPA registered disinfectant (bactericide, virucide, and fungicide)
- Costs up to 80% less per ounce than premade ready-to-use cleaners.
- Produce the quantity required on site as needed.
- Easy to store and move when not in use.

Benefits

- Less hazardous than typical disinfectants (e.g., sodium hypochlorite or quaternary ammonium compounds); no allergens such as fragrances or plant extracts/oils.
- Less waste (made on demand; less packaging and pollution; potential to replace multiple types of cleaners/ disinfectants).
- Meets Department requirements for procurement of cleaning products (PL 118-159, Section 856).

Demonstration Sites

- Pentagon Athletic Center
- Naval Support Activity Bethesda
- Joint Base Lewis-McChord
- NASA Armstrong Flight Research Center

For additional information please contact:

- [DoW STED Program email](#)



Disinfectant Being Generated