



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 disinfectant multipurpose cleaner.

Potential Impact

- Potential to replace multiple cleaner types (surface cleaners, degreasers, glass cleaners, etc.) with one product.
- Reduced chemical storage and tracking.
- EPA registered disinfectant.
- Costs up to 80% less per ounce than premade cleaners.

Demonstration Sites

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

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 plastic packaging and transport-related emissions; potential to replace multiple types of cleaners/disinfectants).



Disinfecting

For additional information please contact:

- osd.mc-alex.osd-a-s.mesg.dod-sted-program-mbx@mail.mil
- Department of Defense (DoD) Sustainable Products Center (SPC):
<https://www.denix.osd.mil/spc/index.html>