



# Sustainable Technology Evaluation and Demonstration (STED) Program

## Biobased Rifle Bore Cleaner Demonstration



### Technology Description

Biobased solvent cleaning compound for the removal of copper fouling and firing residue in the bore of weapons; qualified under MIL-PRF-372G and listed on Qualified Products List (QPL).

### Potential Impact

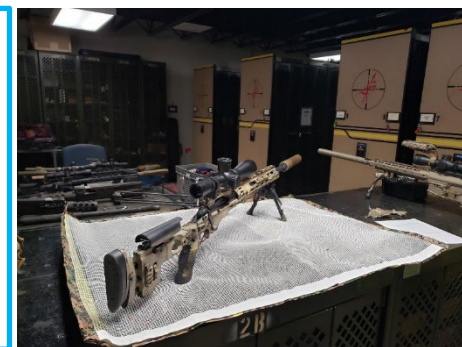
- Improve worker safety: reduce noxious odor; higher flashpoint.
- Improve weapon cleaning performance.
  - Improve carbon and copper removal.
  - Reduces amount of RBC used by 25 to 30%.
  - Reduces cleaning time by 5 to 50%.
  - Reduces waste generation from cleaning processes by up to 30%.
- Implementing biobased RBC could potentially save DoD \$214K/yr due to usage reduction.

### Benefits

- Replace petroleum-based bore cleaner currently used at installations.
- BioPreferred Product Category: reduce use of petroleum distillate products and expand markets for domestic agricultural products.

### Demonstration Sites

- Ft. Moore
- MCB Quantico
- MCB Camp Pendleton
- NSWC Crane



**Weapons Cleaning and Maintenance**

### For additional information please contact:

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- Department of Defense (DoD) Sustainable Products Center (SPC):  
<https://www.denix.osd.mil/spc/index.html>