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-372F Type B and listed on Qualified Products List (QPL).

Potential Impact

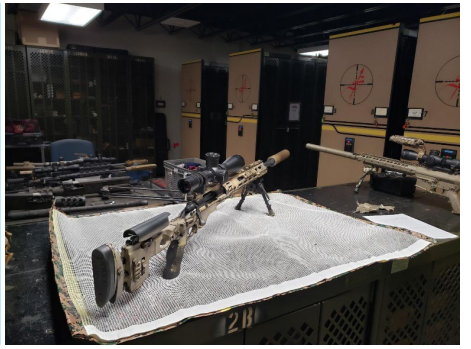
- Improve worker safety: reduce noxious odor; higher flashpoint.
- Improve weapon cleaning performance.
  - – Improve carbon, copper, sulfate, contaminant, and residue removal.
  - – Reduces amount of RBC used by 25 to 30%.
  - – Reduces cleaning time by 5 to 50%.
  - – Reduces waste generation from 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