



Sustainable Technology Evaluation and Demonstration (STED) Program

Biobased Penetrating Lubricants



Technology Description

Biobased penetrating lubricants for light lubrication and corrosion resistance in close tolerant internal and external applications; materials to replace petroleum oil.

Potential Impact

- Reduce petroleum consumption by at least 68%.
- Biodegradable - Reduced spill/clean up costs.
- Reduced skin and inhalation exposure.
- Reduce negative impact to vegetation, soil, and water quality.

Demonstration Sites

- Demonstrated at Fort Bragg, Fort Meade, Fort Jackson, U.S. Army Garrison Hawaii, Joint Base (JB) Lewis-McChord, Yakima Training Center, JB Charleston, JB Pearl Harbor Hickam, Naval Base Kitsap, Naval Hospital Beaufort, Marine Corps Air Ground Combat Center Twentynine Palms, Marine Corps Air Station (MCAS) Camp Pendleton, Marine Corps Base (MCB) Camp Pendleton, MCB Hawaii (MCBH), Marine Corps Recruit Depot Parris Island, Marine Corps Mountain Warfare Training Center, South Carolina Army National Guard, and the Pentagon.

Benefits

- BioPreferred Product Category: expand markets for domestic agricultural products.
- Improved performance over petroleum-based products. CID A-A-50493 revised to add a Class A – Biobased; four new biobased NSNs established.
- Assists installations in meeting federal acquisition regulations and preferred procurement programs.

For additional information please contact:

- [DoW STED Program email](#)



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