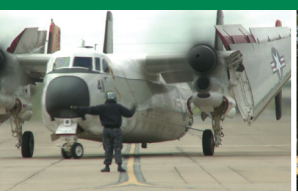
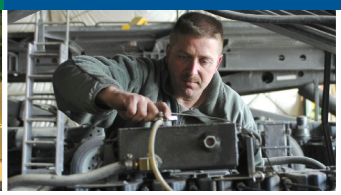
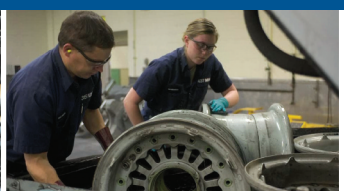


Soy Biobased Penetrating Lubricants & Spill Sorbents Succeed in DLA Demonstrations

After successful performance evaluations, the U.S. Department of Defense (DoD) Defense Logistics Agency (DLA) has officially introduced soy biobased penetrating lubricants and a spill sorbent into the federal buying system.

Now DLA customers can easily identify and buy these soy biobased products as an alternative to petroleum-based counterparts with the knowledge that they meet DoD product specifications and performance requirements.

On behalf of DLA Aviation, the National Defense Center for Energy and Environment (NDCEE) operated by Concurrent Technologies Corporation (CTC), evaluated the products as part of the Green Product Evaluation and Demonstration Program. The evaluation included two soy-based penetrating lubricants:

- *Renewable Lubricants' Bio-Blast™ penetrating lubricant http://www.renewablelube.com/penetrating.html and*
- *Terresolve Technologies'EnviroLogic® 38 Penetrating Lubricant, http://www.terresolve.com/products/biodegradable-non-toxic/general-purpose/ as well as*
- *a soy-containing spill absorbent, Nature's Broom. http://www.natures-broom.com/*

DoD Video Tells Why Going Green is Not Going Soft

The DoD "The Easy Way to Go Green" video is available on www.soybiobased.org. This informative, 5-minute video explains why the military is "going green."

"The products were tested in 2010 and 2011 at eight Tri-Service DoD installations and achieved equal to, or better performance, ratings than the existing petroleum-based products," reports CTC's Director of Green Programs George C. Handy II, who oversaw the NDCEE's field demonstrations.

"The two product categories fit very nicely into the DoD 'Go Green' initiative," says DLA Aviation Chief Calvin Lee of the Hazardous Minimization and Green Products Branch. "The participating maintenance activities within the installations found the biobased sorbent and penetrating lubricants to be acceptable alternatives to the currently used non-green or petroleum-based products.

"These biobased products meet Federal Acquisition Regulations, Executive Order's (EOs), DoD's Strategic Sustainability Performance Plan (SSPP) directives and the BioPreferred Program requirements as well as provide enhanced health and safety benefits to the warfighter," says Lee. "They also support DoD mission goals of minimizing waste streams, reducing dependence on foreign petroleum and sustaining U.S. industry."

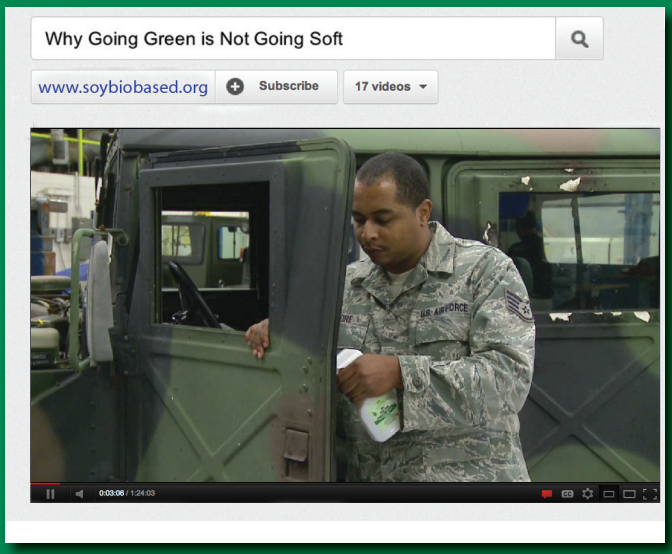
Both penetrating lubricants and spill sorbents are officially designated by the U.S. Department of Agriculture as part of the preferential purchasing program for biobased products created in the 2002 Farm Bill. http://www.biopreferred.gov/ProductCategories.aspx

"Going green is not 'going soft' because these products really work, provide more choices, and are safer to use."

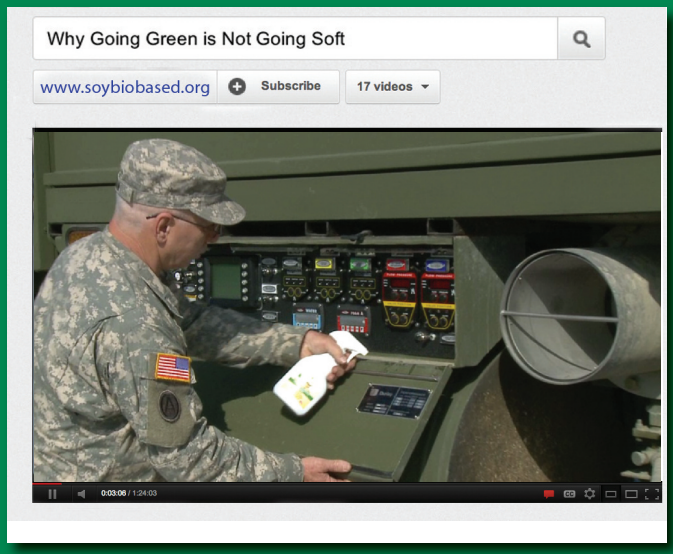
— Staff Sergeant Daniel T. Moore, 628th Logistical Readiness Squadron, Joint Base Charleston, SC.

The NDCEE is in the process of evaluating biobased hydraulic fluid and food service ware for possible future inclusion in the DLA system.

The Green Product Evaluation and Demonstration Program supports DoD-wide efforts to use more renewable and sustainable materials. The program identifies, evaluates, and demonstrates "green" and biobased products for potential use as alternatives to petroleum-

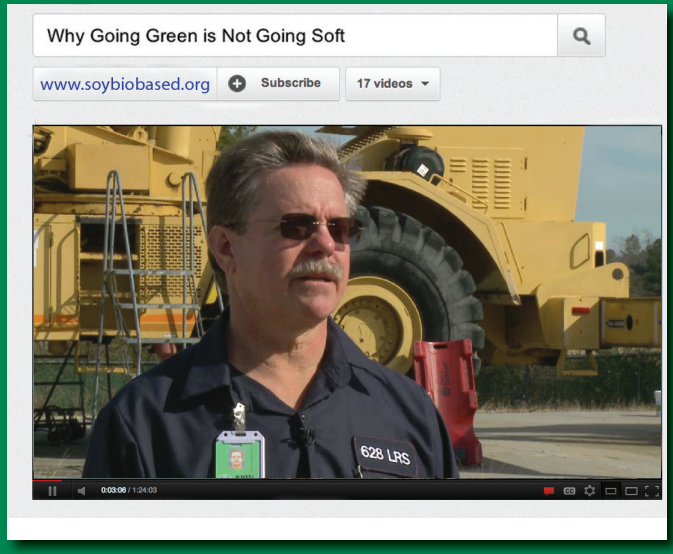


Staff Sergeant Daniel F. Moore, 628th Logistics Readiness Squadron, Joint Base Charleston, applying BioBlast penetration lubricant to High Mobility Multipurpose Wheeled Vehicle door latch.



Sergeant Gerald Egan, Senior Mechanic, 742nd Maintenance Unit, Combined Maintenance Shop, South Carolina Army National Guard, applying BioBlast penetrating lubricant to fire truck control panel door hinge.

Sergeant Tommy Jackson, Surface Maintenance Mechanic, Unit Training and Equipment, discusses the performance of biobased products.



Mr. Lloyd "Speedy" Driggers, 628th Logistics Readiness Squadron, Joint Base Charleston applies Nature's Broom Buckshot sorbent to absorb oil during crane maintenance.

based products currently used by DoD. The objective is to build support for and create awareness of green procurement by showing that there are alternative products that meet the military's performance requirements while at the same time reducing environmental impacts, protecting workers, and lessening dependence on imported petroleum.

One of the keys to the success of the demonstration and evaluation program was the hands-on field demonstrations. According to David Asiello, Office of the Deputy Under Secretary of Defense for Installations & Environment, "By putting the potential alternatives in the hands of the warfighters and allowing them to use the products in their day-to-day activities, we were able to demonstrate that they really work in an operational environment."

In recognition of their work, DoD, DLA and NDCEE received the 2011 Center for Environmental Innovation and Leadership (CEIL) "Achievement in Inauguration" Award for the Green Product Evaluation and Demonstration Program. The award showcases the great idea and recent successes of public sector innovations.

The Department of Defense, Defense Logistics Agency (DLA) and National Defense Center for Energy and Environment (NDCEE) won the 2011 Center for Environmental Innovation and Leadership's "Inauguration Award" for their Green Product Evaluation and Demonstration Program. Pictured from left to right are: Mike Pipan, DLA Headquarters; Calvin Lee, DLA Aviation; James Reed, DLA Headquarters; Dave Asiello, Office of the Deputy Under Secretary of Defense for Installations & Environment; George Handy, NDCEE / CTC; Hershell E. Wolfe, Deputy Assistant Secretary of the Army Environment, Safely and Occupational Health and NDCEE Executive Agent.

New National Stock Numbers Assigned for Biobased Products

DLA Aviation has established a biobased class of penetrating lubricants under the Commercial Item Description A-A-50493 (Class A Biobased Penetrating Lubricants). Four new National Stock Numbers (NSNs) are established and assigned for biobased penetrating lubricants:

Company	Product	Size/Type	NSN
Renewable Lubricants	Bio-Blast	11 oz Aerosol Can	9150-01-591-4274
		12 oz. Spray Bottle	9150-01-598-9606
		1 Gallon	9150-01-591-4247
		55 Gal Drum	9150-01-591-4281

Company	Product	Size/Type	NSN
Terresolve Technologies	EnviroLogic 38	11 oz Aerosol Can	9150-01-591-4274
		12 oz. Spray Bottle	9150-01-598-9606
		1 Gallon	9150-01-591-4247
		55 Gal Drum	9150-01-591-4281

Customers can purchase products through the MILSTRIP requisitioning or may also use the DoD EMALL. Military customers that purchase through DLA can receive credit (accountability on their environmental score card) for buying sustainable/biobased penetrating lubricants and sorbents.

New NSNs are established for the biobased sorbents that were successfully demonstrated. Among those are Nature's Broom product.

Company	Product	Size/Type	NSN
Nature's Broom	Nature's Broom Absorbent	4 lb Granular	4235-01-572-3902
	Nature's Broom Absorbent	20 lb Granular	4235-01-572-3892
	Nature's Broom Absorbent	40 lb Granular	4235-01-599-3952
	Nature's Broom Buckshot Absorbent	Pelletized	4235-01-595-9846
	Nature's Broom Sock	3"x40 Sock	4325-01-572-3929
	Nature's Broom Pillow	15"x15" Pillow	4235-01-572-3933

FACT FILE

For more information about these DoD uses of biobased products, contact:

Mr. Calvin Lee
Chief, Hazardous Minimization and Green Products Branch
DLA Aviation
DSCR-VBD
8000 Jefferson Davis Highway
Richmond, VA 23297
Email: calvin.lee@dla.mil
804 279-2087

David Asiello
DoD Sustainability Program Manager
Office of the Deputy Under Secretary of Defense
Installations and Environment
3400 Defense Pentagon
Washington, DC 20301
david.asiello@osd.mil
703-604-1874

George Handy
Director, Green Programs
NDCEE / Concurrent Technologies Corporation
341 Magnolia Lake Ct.
Aiken, SC 29803
803 641-0203
handyg@ctc.com
www.ndcee.ctc.com

The 69 farmer-directors of USB oversee the investments of the soy checkoff to maximize profit opportunities for all U.S. soybean farmers. These volunteers invest and leverage checkoff funds to increase the value of U.S. soy meal and oil, to ensure U.S. soybean farmers and their customers have the freedom and infrastructure to operate, and to meet the needs of U.S. soy's customers. As stipulated in the federal Soybean Promotion, Research and Consumer Information Act, the USDA Agricultural Marketing Service has oversight responsibilities for USB and the soy checkoff.

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16305 Swingley Ridge Rd., Ste. 120, Chesterfield, MO 63017
1-888-579-1580 FAX: 314-579-1599 merker@smithbucklin.com

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