



Innovative New Uses for Soy

USB Support Helps Push Soy Products into the Market



The United Soybean Board (USB) and the soybean checkoff are committed to partnering with industry to fund the development of innovative soy-based product research. Twenty-two new soy-based products in USB's five market areas - plastics, lubricants, coatings and printing inks, adhesives and emerging industrial products were commercialized last year. All of these products were partly funded by USB and continuing research efforts from private industry, universities and research institutions across the country.

"Partnering with industry to carry out research into new soy products is a cost-effective and mutually beneficial means to increase the use of soy in everyday products," says Todd Allen, chair of USB's

New Uses Committee. "USB makes it a priority to build relationships with industry leaders to bring new soy products to market."

U.S. manufacturers and researchers were responsible for utilizing in excess of 750 million pounds of soybean oil in 2006. That figure has steadily risen over the past decade and continues to increase as many companies express interest in using soy over petrochemicals to meet increasing demand by consumers for environmentally friendly products.

Products benefiting from USB funding in 2006 include Ashland Chemical Company's ENVIREZ line, which has five new additions of soy-based resins for use in applications such as agricultural equipment manufactured by John Deere and Case New Holland. Other examples of soy-based technology created this year include the following products:

- Agri-Color by New Century Coatings - soy-methyl-ester-based universal colorant system for water-based paints.
- Agri-Solv by New Century Coatings - soy-methyl-ester-based paint and glue stripper.
- Agri-Sperse by New Century Coatings - soy-based pigment for water-based and solvent coatings.
- Amazing by Green Products, Inc. - soy-corn-oil-based solvent and stripper.
- BiOH by Cargill Industrial Oils Division - Soy-oil-based polyols used in plastics applications.
- Biorenewables Industrial Degreaser by Spartan Chemical - a soy-based degreaser.
- Biorenewables Waterless Hand Cleaner by Spartan Chemical.
- ELMS Platinum by Green Products, Inc. - a soy-linseed urethane high-performance roof coating.
- EOS by EOS Remediation - emulsified soy oil for cleaning of polluted groundwater.
- Graffiti Remover SAC by Spartan Chemical - a soy-based graffiti cleaner.
- Green BMC by Ashland with Bulk Molding Compounds, Inc. - a 100 percent soy-based resin for closed molding applications targeted at automotive applications.
- Naturelube 700 by BioPlastics Polymers & Composites - a soy-based lubricant for metal protection.
- SoyMatrix by Urethane Soy Systems - a polyurethane composite system for pultrusion applications.
- Soy Verde by Citrus Oleo - a soy-based solvent.
- Tri-Base Multipurpose Cleaner by Spartan Chemical - soy-based parts cleaner.
- Vikol 1 & 2 by Arkema Inc. - polyols based on epoxidized soy oil for polyurethane foams and coatings.

For more information on USB and soy-based technology, please visit the Soy Products Guide online at www.unitedsoybean.org/newuses.

USB is made up of 64 farmer-directors who oversee the investments of the soybean checkoff on behalf of all U.S. soybean farmers. Checkoff funds are invested in the areas of animal utilization, human utilization, industrial utilization, industry relations, market access and supply. As stipulated in the Soybean Promotion, Research and Consumer Information Act, USDA's Agricultural Marketing Service has oversight responsibilities for USB and the soybean checkoff.