

Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the BioPreferred Program. This summary reflects data available as of March 26, 2007.

Title: Food Cleaners

Description: Anti-microbial products designed to clean the outer layer of various food products, such as fruit, vegetables, and meats.

Manufacturers Identified: 11 manufacturers producing Food Cleaners have been identified through internet searches, manufacturer's directories, trade associations, and company submissions.

Industry Associations Investigated: The following industry associations have been investigated for member companies producing Food Cleaners:

- Biobased Manufacturers Association
- United Soybean Board
- National Restaurant Association

Commercially Available Products Identified: Of the manufacturers identified, 15 Food Cleaners are commercially available on the market.

Product Information Collected: Specific product information including company contact, intended use, biobased content, and performance characteristics have been collected on 7 Food Cleaners.

Industry Performance Standards: Product information submitted by biobased manufacturers indicate that have typically been tested to the following industry standards:

- Boeing #D6-7127 Cleaning Interiors of Commercial Transport Aircraft
- US Navy #Navsea 6840 U.S. Navy surface ship (non-submarine) authorized chemical cleaning products and dispensing systems
- South Coast Air Quality Management District - Clean Air: The SCAQMD hereby certifies the above product as a "Clean Air Solvent"
- Federal Test Method Standard #536A Soap and soap products (including synthetic detergents) sampling and testing

Samples Tested for Biobased Content: 5 samples of Food Cleaners have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

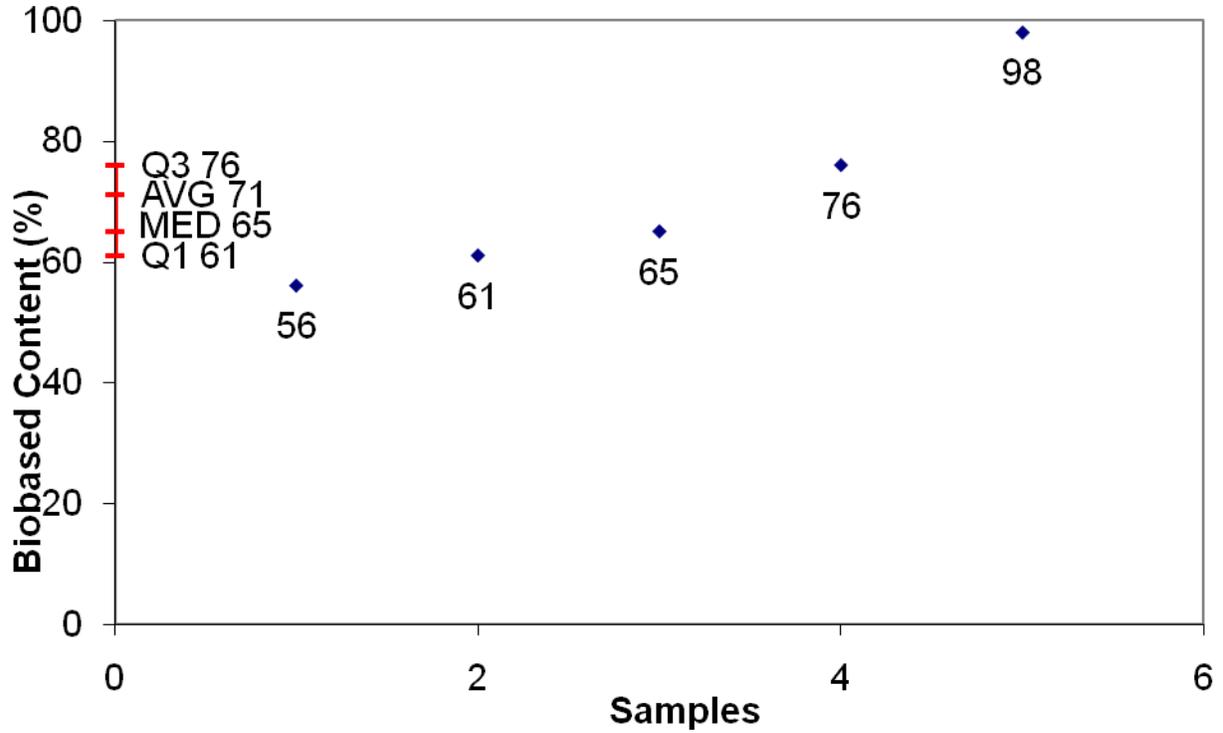
Biobased Content Data: Results from biobased content testing of Food Cleaners indicate a range of content percentages from 56% minimum to 98% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 1 Food Cleaners have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Food Cleaners range from \$4.00 minimum to \$4.00 maximum per usage unit. The environmental scores range from 0.0006 minimum to 0.0006 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

Food Cleaners

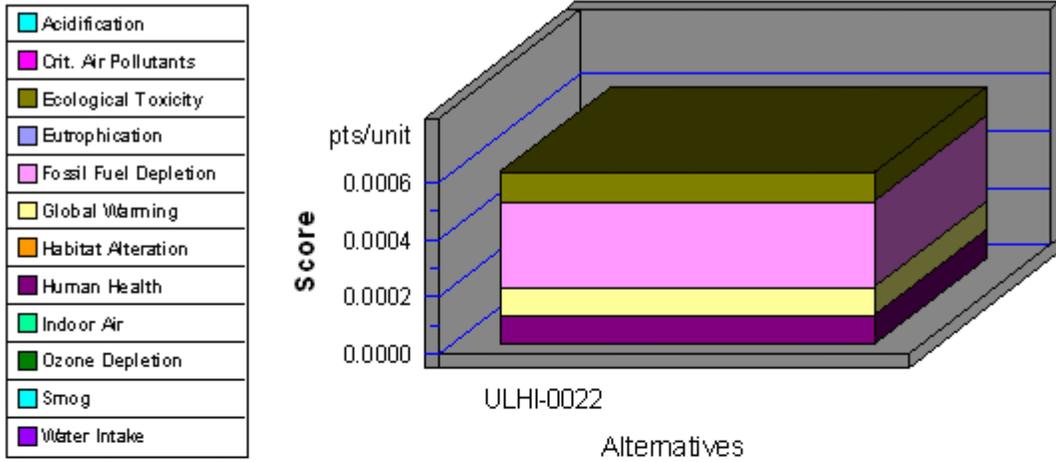


	Companies Identified	Products Identified	C14	BEES
1	G944	G944-0014	56	
2	WF5U	WF5U-0031	61	
3	RDO8	RDO8-0028	65	
4	ULHI	ULHI-0022	76	yes
5	CF61	CF61-0001	98	

Appendix B - BEES Analysis Results

Units: 1 Gallon

Environmental Performance

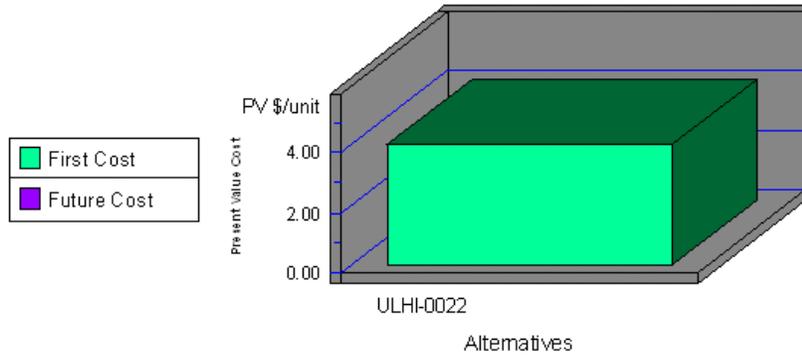


Note: Lower values are better

Category	ULHI-0022
Acidification-5%	0.0000
Crit. Air Pollutants-6%	0.0000
Ecolog. Toxicity-11%	0.0001
Eutrophication-5%	0.0000
Fossil Fuel Depl.-5%	0.0003
Global Warming-16%	0.0001
Habitat Alteration-16%	0.0000
Human Health-11%	0.0001
Indoor Air-11%	0.0000
Ozone Depletion-5%	0.0000
Smog-6%	0.0000
Water Intake-3%	0.0000
Sum	0.0006

Appendix B (continued)

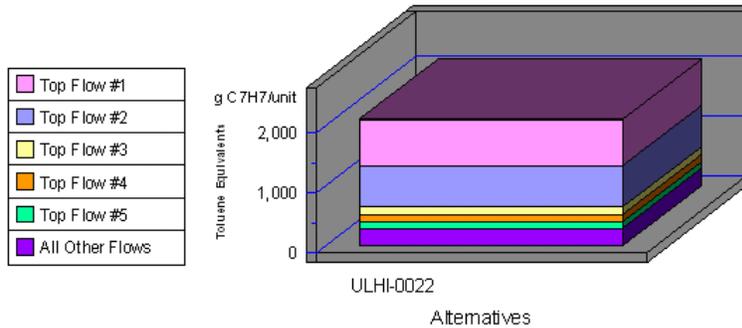
Economic Performance



Category	ULHI-0022
First Cost	4.00
Future Cost-- 3.9%	0.00
Sum	4.00

*No significant/quantifiable durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

Human Health by Sorted Flows*



Note: Lower values are better

Category	ULHI-0022
Cancer--(w) Arsenic (As3+, As5+)	777.91
Cancer--(w) Phenol (C6H5OH)	678.32
Cancer--(a) Dioxins (unspecific)	124.45
Cancer--(a) Ethylene Oxide (C2H)	118.43
Cancer--(a) Arsenic (As)	116.81
All Others	291.06
Sum	2,106.98

*Sorted by five topmost flows for worst-scoring product