

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 August 9, 2006. Additional performance standards added as of March 26, 2007.

Title: General Purpose Household Cleaners

Description: Products designed to clean multiple common household surfaces. This designated item does not include products that are formulated for use as disinfectants. Task-specific cleaning products, such as spot and stain removers, upholstery cleaners, bathroom cleaners, glass cleaners, etc., are not included in this item.

Manufacturers Identified: 16 manufacturers producing General Purpose Household 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 General Purpose Household Cleaners:

- Biobased Manufacturers Association
- United Soybean Board
- Soap and Detergent Association

Commercially Available Products Identified: Of the manufacturers identified, 24 General Purpose Household 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 3 General Purpose Household Cleaners.

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

- Federal Test Method Standard #536A Soap and Soap Products (Including synthetic detergents) sampling and testing
- Green Seal Green Seal Environmental Standard for Household Cleaners
- Boeing #D6-7127 Cleaning Interiors of Commercial Transport Aircraft
- South Coast Air Quality Management District certified "Clean Air Solvent"
- United States Navy Navsea #6840 Surface ship (non-submarine) authorized chemical cleaning products and dispensing systems.
- American Society for Testing and Materials D1308-02e1 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes

Samples Tested for Biobased Content: 9 samples of General Purpose Household Cleaners have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

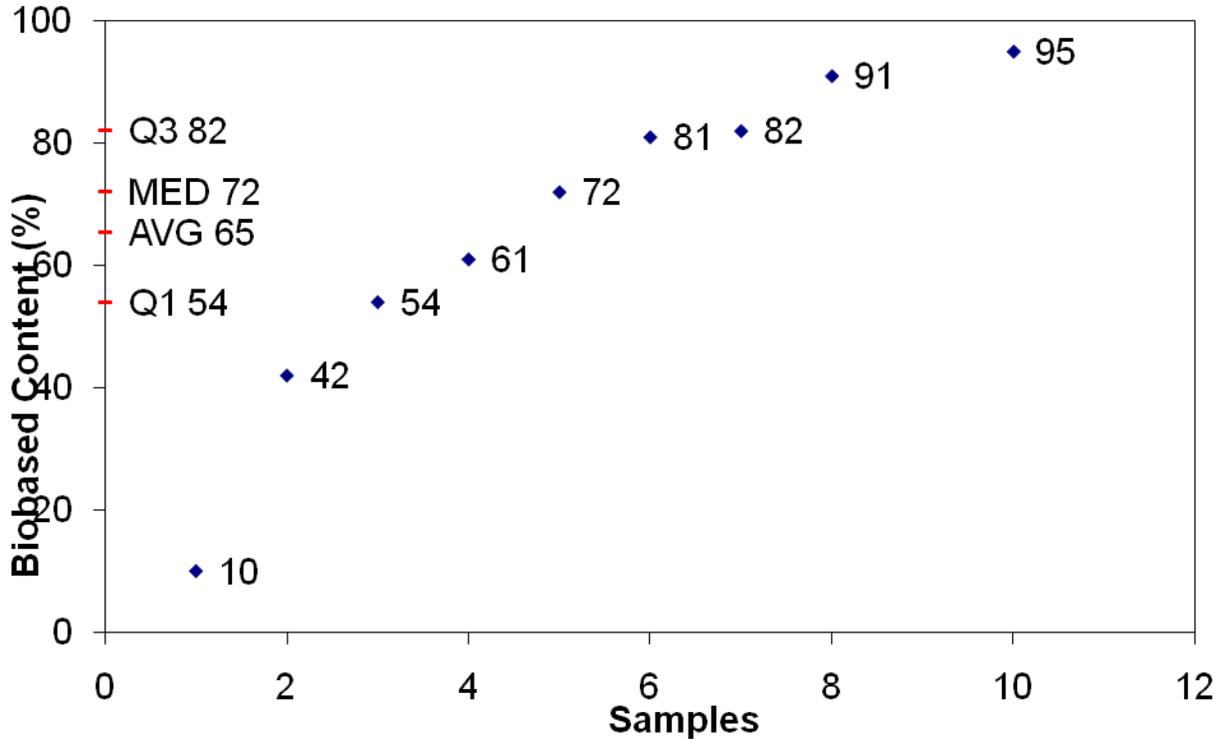
Biobased Content Data: Results from biobased content testing of General Purpose Household Cleaners indicate a range of content percentages from 10% minimum to 95% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 2 General Purpose Household Cleaners have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted General Purpose Household Cleaners range from \$27.50 minimum to \$65.63 maximum per usage unit. The environmental scores range from 0.0127 minimum to 0.1005 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

General Purpose Household Cleaners

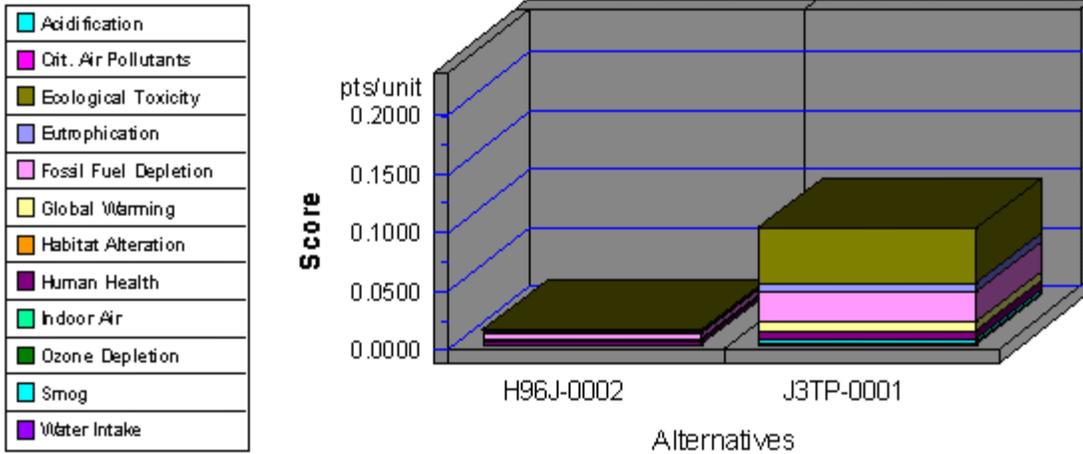


	Companies Identified	Products Identified	C14	BEES
1	V865	V865-0010	10	
2	FCM9	FCM9-0007	42	
3	H96J	H96J-0002	54	yes
4	C9PX	C9PX-0006	61	
5	ULHI	ULHI-0019	72	
6	X4H4	X4H4-0006	81	
7	ULHI	ULHI-0036	82	
8	J3TP	J3TP-0001	91	yes
10	RDO8	RDO8-0038	95	

Appendix B - BEES Analysis Results

Units: 5 gallons

Environmental Performance

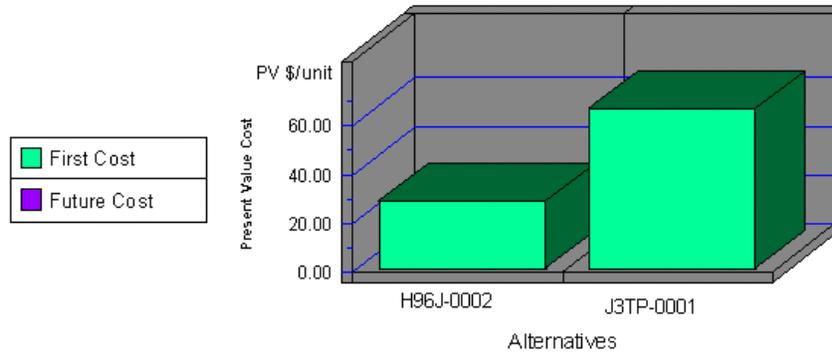


Note: Lower values are better

Category	H96J-0002	J3TP-0001
Acidification-5%	0.0000	0.0000
Crit. Air Pollutants-6%	0.0002	0.0003
Ecolog. Toxicity-11%	0.0012	0.0473
Eutrophication-5%	0.0008	0.0072
Fossil Fuel Depl.-5%	0.0055	0.0247
Global Warming-16%	0.0019	0.0085
Habitat Alteration-16%	0.0000	0.0000
Human Health-11%	0.0021	0.0076
Indoor Air-11%	0.0000	0.0000
Ozone Depletion-5%	0.0000	0.0000
Smog-6%	0.0009	0.0027
Water Intake-3%	0.0001	0.0022
Sum	0.0127	0.1005

Appendix B (continued)

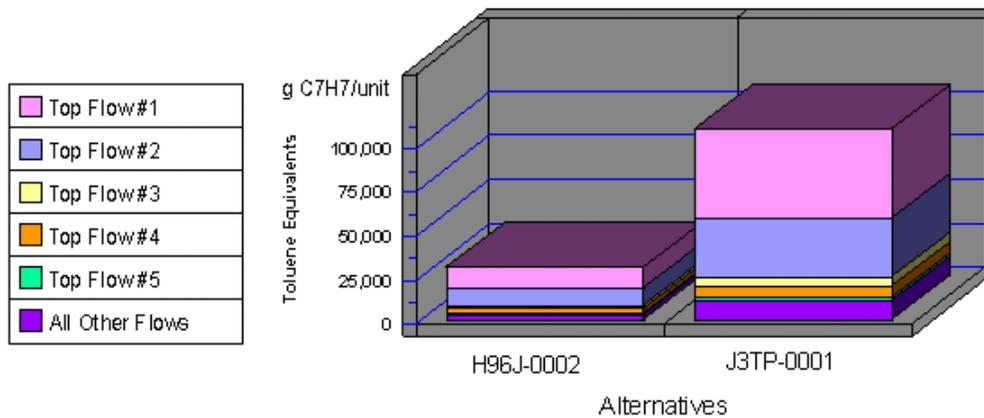
Economic Performance



Category	H96J-0002	J3TP-0001
First Cost	27.50	65.63
Future Cost - 3.9%	0.00	0.00
Sum	27.50	65.63

*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	H96J-0002	J3TP-0001
Cancer-(w) Arsenic (As3+, As5+)	11,978.47	50,942.92
Cancer-(w) Phenol (C6H5OH)	10,022.50	33,515.24
Cancer-(a) Arsenic (As)	1,755.71	5,602.89
Cancer-(a) Dioxins (unspecifie)	2,795.36	5,552.44
Noncancer-(a) Mercury (Hg)	918.47	2,406.89
All Others	3,150.23	11,073.66
Sum	30,620.75	109,094.04

*Sorted by five topmost flows for worst-scoring product