

Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the Federal Biobased Product Preferred Procurement Program (FB4P). This summary reflects data available as of March 3, 2006.

Title: Concrete and Asphalt Release

Description: These products provide a lubricating barrier between the composite surface materials (eg. concrete, asphalt) and the container (eg. wood or metal forms, truck beds, Roller surfaces). They provide a non-sticking surface to help prevent waste and to improve clean up procedures.

Manufacturers Identified: 23 manufacturers producing Concrete and Asphalt Release 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 Concrete and Asphalt Release:

- National Asphalt Pavement Association
- American Concrete Pavement Association
- Asphalt Emulsion Manufacturers Association
- Asphalt Recycling & Reclaiming Association
- Portland Cement Association
- National Ready Mixed Concrete Association
- Precast/Prestressed Concrete Institute

Commercially Available Products Identified: Of the manufacturers identified, 37 Concrete and Asphalt Release 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 14 Concrete and Asphalt Release.

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

- American Society for Testing and Materials #D445-04e2 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)
- American Society for Testing and Materials #D5864-00 Standard Test Method for Determining Aerobic Aquatic Biodegradation of Lubricants or Their Components
- American Society for Testing and Materials #D-92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester

- American Society for Testing and Materials #D-97 Standard Test Method for Pour Point of Petroleum Products

Samples Tested for Biobased Content: 8 samples of Concrete and Asphalt Release have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

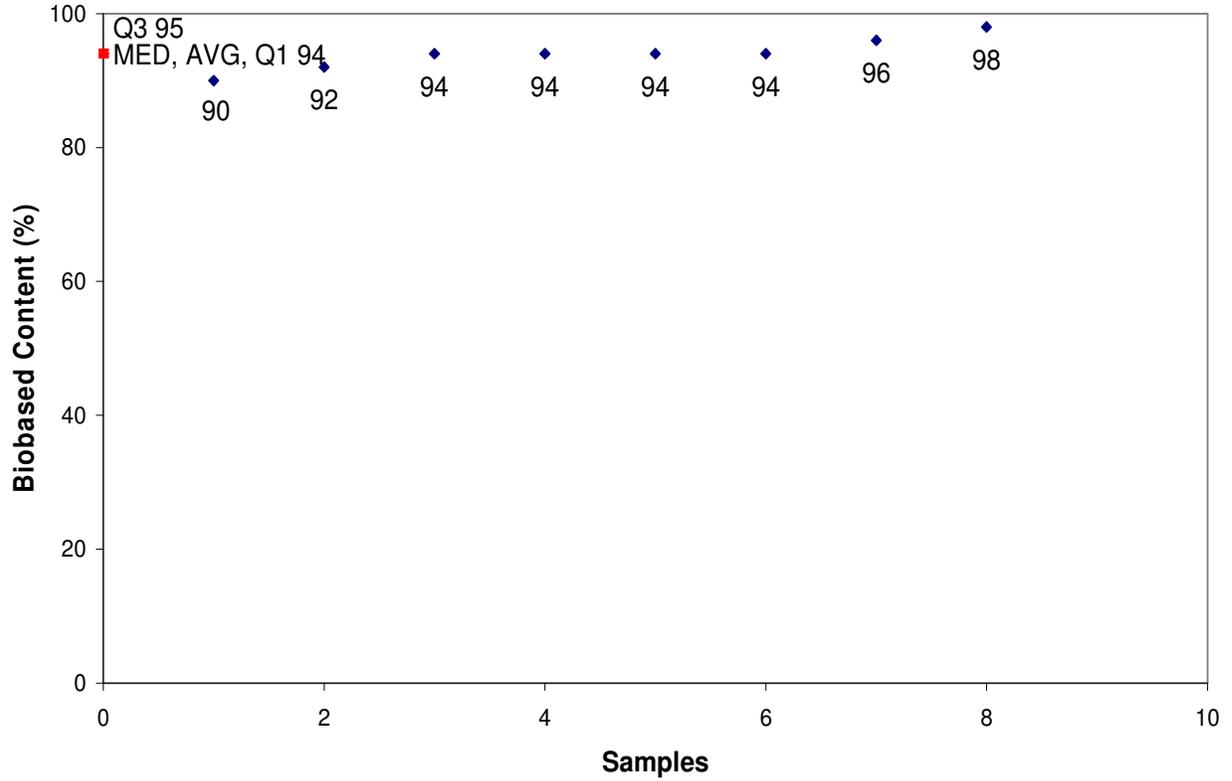
Biobased Content Data: Results from biobased content testing of Concrete and Asphalt Release indicate a range of content percentages from 90% minimum to 98% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 2 Concrete and Asphalt Release products have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Concrete and Asphalt Release products range from \$154.97 minimum to \$604.82 maximum per usage unit. The environmental scores range from 0.5194 minimum to 0.7453 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

Concrete and Asphalt Release

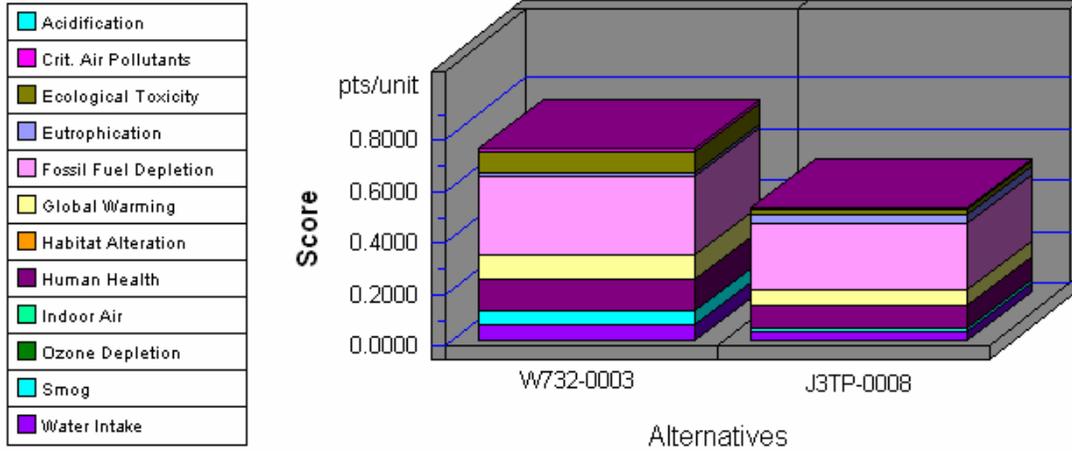


	Manufacturers Identified	Products Identified	C14	BEES
1	W732	W732-0003	90	yes
2	J7A3	J7A3-0030	92	
3	J3TP	J3TP-0008	94	yes
4	OW92	OW92-0010	94	
5	RGWJ	RGWJ-0019	94	
6	J7A3	J7A3-0024	94	
7	AJTK	AJTK-0045	96	
8	AJTK	AJTK-0013	98	

Appendix B - BEES Analysis Results

Functional Unit: 1000 gallons of release compound, diluted and ready for use

Environmental Performance

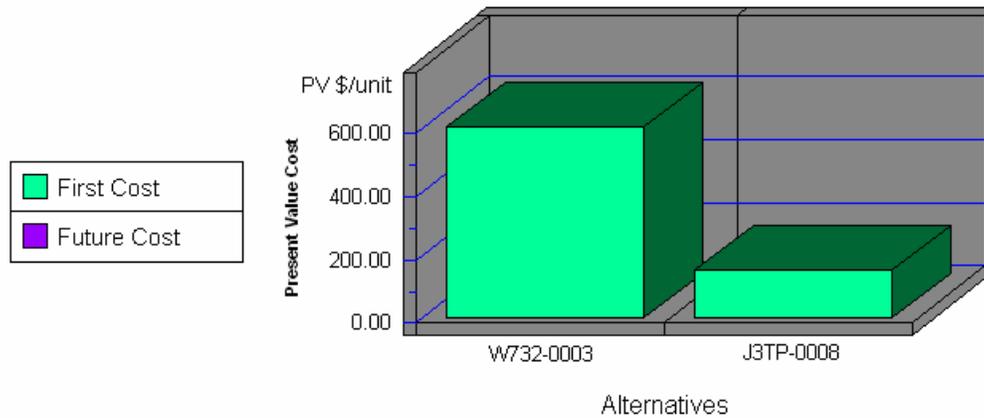


Note: Lower values are better

Category	W732-0003	J3TP-0008
Acidification--5%	0.0001	0.0000
Crit. Air Pollutants--6%	0.0077	0.0053
Ecolog. Toxicity--11%	0.0827	0.0252
Eutrophication--5%	0.0121	0.0290
Fossil Fuel Depl.--5%	0.3097	0.2624
Global Warming--16%	0.0927	0.0616
Habitat Alteration--16%	0.0000	0.0000
Human Health--11%	0.1203	0.0883
Indoor Air--11%	0.0000	0.0000
Ozone Depletion--5%	0.0000	0.0000
Smog--6%	0.0526	0.0123
Water Intake--3%	0.0674	0.0353
Sum	0.7453	0.5194

Appendix B (continued)

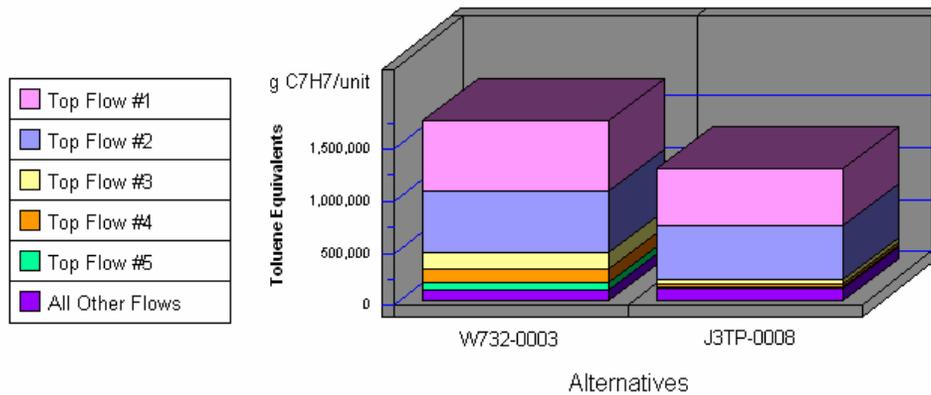
Economic Performance



Category	W732-0003	J3TP-0008
First Cost	604.82	154.97
Future Cost-- 3.9%	0.00	0.00
Sum	604.82	154.97

*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	W732-0003	J3TP-0008
Cancer--(w) Arsenic (As3+, As5+	679,812.61	552,455.31
Cancer--(w) Phenol (C6H5OH)	583,710.40	514,755.60
Cancer--(a) Dioxins (unspecifie	158,148.69	38,675.59
Cancer--(a) Arsenic (As)	141,995.88	36,862.97
Noncancer--(a) Mercury (Hg)	64,312.23	7,432.49
All Others	108,887.07	124,544.33
Sum	1,736,866.89	1,274,726.29

*Sorted by five topmost flows for worst-scoring product