

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 July 26, 2006.

Title: Dust Suppressants

Description: Biobased materials that eliminate or reduce the spread of dust associated with gravel roads or other sources of high dust levels.

Manufacturers Identified: 12 manufacturers producing Dust Suppressants 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 Dust Suppressants:

- American Society of Civil Engineers
- Biobased Manufacturers Association
- United Soybean Board
- South Coast Air Quality Management Department
- International Erosion Control Association
- Stratsoy
- American Soybean Association

Commercially Available Products Identified: Of the manufacturers identified, 12 Dust Suppressants 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 Dust Suppressants.

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

- Missouri State Specifications
- Water runoff quality test (Minnesota DOT)
- OSHA 29-CFR Ch. XVII 1910.1200 and 40 CFR Ch. 1, Subparts C & D - Hazard Communication
- USEPA 600, 4-90, 027 for aquatic toxicity
- USEPA 601 & 602 for VOC testing

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

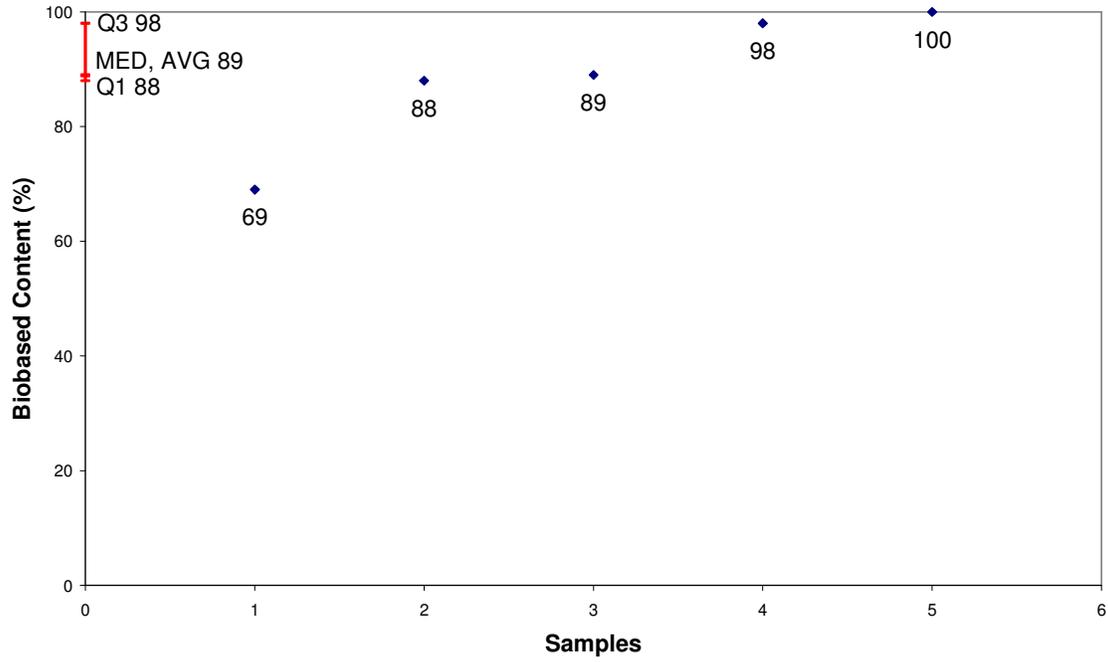
Biobased Content Data: Results from biobased content testing of Dust Suppressants indicate a range of content percentages from 69% minimum to 100% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 2 Dust Suppressants have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Dust Suppressants range from \$7.20 minimum to \$47.00 maximum per usage unit. The environmental scores range from 0.0335 minimum to 0.7545 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

Dust Suppressants



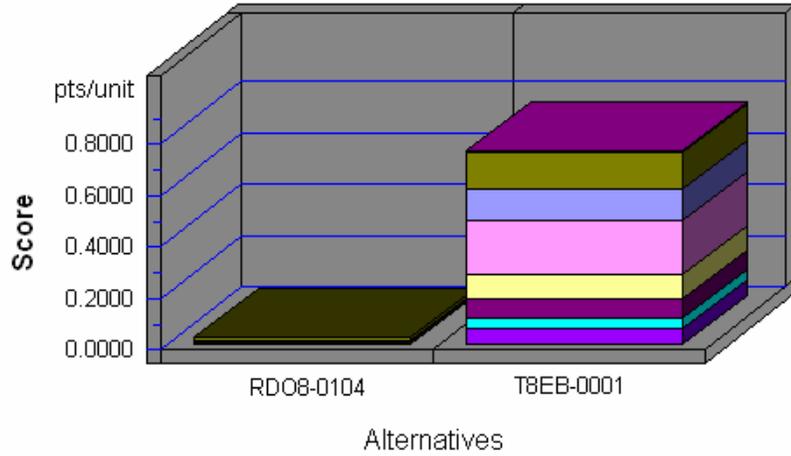
	Manufacturers Identified	Products Identified	C14	BEES
1	AJTK	AJTK-0046	69	
2	J7A3	J7A3-0029	88	
3	RDO8	RDO8-0104	89	yes
4	RHBM	RHBM-0001	98	
5	T8EB	T8EB-0001	100	yes

Appendix B - BEES Analysis Results

Functional Unit: 1000 ft² Application

Environmental Performance

Acidification
Crit. Air Pollutants
Ecological Toxicity
Eutrophication
Fossil Fuel Depletion
Global Warming
Habitat Alteration
Human Health
Indoor Air
Ozone Depletion
Smog
Water Intake

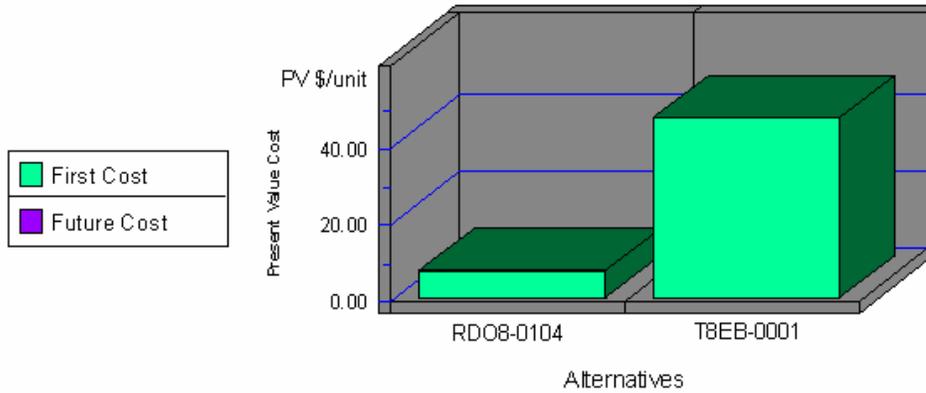


Note: Lower values are better

Category	RDO8-0104	T8EB-0001
Acidification--5%	0.0000	0.0000
Crit. Air Pollutants--6%	0.0002	0.0052
Ecolog. Toxicity--11%	0.0194	0.1417
Eutrophication--5%	0.0015	0.1238
Fossil Fuel Depl.--5%	0.0048	0.2064
Global Warming--16%	0.0024	0.0965
Habitat Alteration--16%	0.0000	0.0000
Human Health--11%	0.0025	0.0737
Indoor Air--11%	0.0000	0.0000
Ozone Depletion--5%	0.0000	0.0000
Smog--6%	0.0010	0.0421
Water Intake--3%	0.0017	0.0651
Sum	0.0335	0.7545

Appendix B (continued)

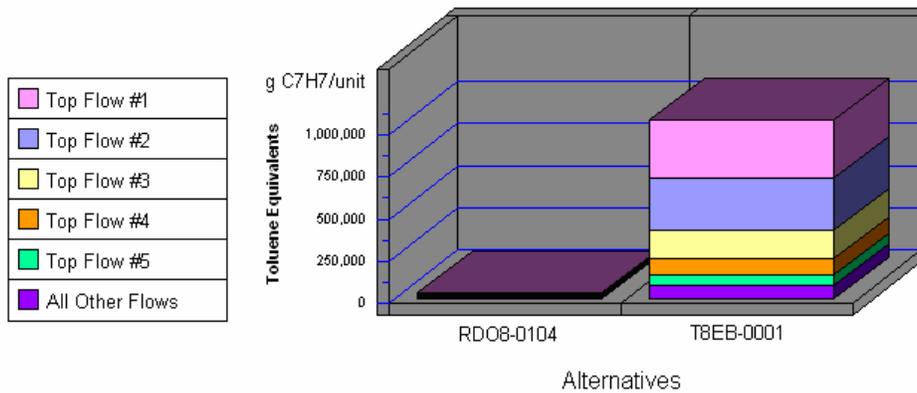
Economic Performance



Category	RDO8-0104	T8EB-0001
First Cost	7.20	47.00
Future Cost-- 3.9%	0.00	0.00
Sum	7.20	47.00

*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	RDO8-0104	T8EB-0001
Cancer--(w) Arsenic (As3+, As5+	8,846.17	342,487.87
Cancer--(w) Phenol (C6H5OH)	8,819.80	310,296.60
Cancer--(a) Bromoxynil (C7H3Br2	265.86	169,644.00
Cancer--(a) Dioxins (unspecif	2,190.34	91,902.39
Cancer--(a) Arsenic (As)	1,664.78	67,290.66
All Others	13,616.06	81,465.90
Sum	35,403.01	1,063,087.42

*Sorted by five topmost flows for worst-scoring product