

EK 35® ENVIRONMENTAL DATA

Acute and Chronic Aquatic Toxicity

PERFORMED BY: ABC Laboratories, Inc.

REPORT DATA: September 16, 2002

SUMMARY: As part of the US EPA Environmental Technology Verification (ETV) Program EK 35® (Liquid Sample A) was tested to determine chronic and acute toxicity to aquatic species: *Ceriodaphnia dubia*, Fathead minnow and *Americamysis bahia* (Mysid shrimp).

Concentrated EK 35® was evaluated per the following EPA test methods:

*Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms, EPA/600/4-90/027F.

*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002.

*Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms, EPA/600/4-91/003.

RESULTS: The results indicate that EK 35® has low aquatic toxicity levels and is not considered an aquatic pollutant.

Ceriodaphnia dubia Acute, EC ₅₀ :	>1000mg/L
Fathead minnow Acute, LC ₅₀ :	271mg/L
Americamysis bahia Acute, EC ₅₀ :	111mg/L
Ceriodaphnia dubia Chronic, EC ₅₀ :	>1000mg/L
Fathead minnow Chronic, LC ₅₀ :	97.3mg/L
Americamysis bahia Chronic, EC ₅₀ :	58.6mg/L



3040 Cornwallis Road ■ PO Box 12194 ■ Research Triangle Park, NC 27709-2194 ■ USA
Telephone 919 541-6000 ■ Fax 919 541-5985 ■ www.rti.org

Mr. Bob Vitale
Midwest Industrial Supply
1101 Third Street, Canton, OH 44707

January 9, 2003

Dear Bob:

B - Enclosed is the test information from the toxicity tests which were run on your products EK[®] 35, EnviroKleen[®] and Soil Sement through the ETV tests. Dr. Gene Tatsch, the Task Quality Assurance person for this work has reviewed the data. His quality assurance report will be completed after additional information is obtained from one of the laboratories. A

ABC Laboratories, Columbia Mo performed the following toxicological tests:

- EPA600/4-90/027F for acute toxicity
 - Water fleas LC50
 - Fathead minnow LC50
 - Mysid shrimp LC50
- EPA/600/4-91/002 for chronic toxicity
 - Water fleas LC50
 - Fathead minnow LC50
 - Mysid shrimp LC50

RTI performed EPA Method 24 tests and I am sending you the results of that, including an email from Dr. Max Peterson who ran the tests.

TriState Laboratories performed the remainder of the tests. While we do have the results of their tests, they are working to answer some questions for us on the results. We will send you those results as soon as they are available. Cheryl Detloff asked for results that we had now.

If have questions, feel free to contact me at (919) 541-6826 or dlf@rti.org.

Sincerely,

Deborah Franke
Attachments

cc: Cheryl Detloff
Todd Hawkins
File

EPA Method 24 Analysis

ID#	Sample ID	ASTM D1475	ASTM D2369	ASTM D3792
		Density (g/mL)	Total Volatiles (Wt%)	Water (Wt%)
1	EK35	0.8956	10.96%*	0.00%

NOTE: Each value is the average of two measurements.

*Duplicate measurements did not meet criterion (analysis repeated four times).

Franke, Deborah L.

From: Peterson, Jr, Max R.
Sent: Monday, November 18, 2002 10:00 AM
To: Franke, Deborah L.
Cc: Richards, Melville H.
Subject: RE: test results

Sorry I forgot to send you this. We had some trouble with the total volatiles analysis of one of the samples (MRI-A) and had to repeat it several times. We never could get it to meet the Method 24 acceptance criterion, so I'm sending you the results that came closest. If you would like the percent volatiles data for all analyses on MRI-A, just let me know.



ETV_8281-001
15_Report_1a.xls

Thanks,
Max Peterson
x5824

-----Original Message-----

From: Franke, Deborah L.
Sent: Tuesday, November 12, 2002 9:45 AM
To: Peterson, Jr, Max R.
Subject: test results

We are still waiting for the results of the tests you were running for our dust suppressant products (from June). The current project number is 08281.001.005.

Can you give me a status report on the tests? Thanks.

Debbie Franke
RTI
(919) 541-6826, dff@rti.org