

HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINEH-24119: STATIC, ACUTE 48-HOUR SCREENING TEST
TO *Daphnia magna*

PURPOSE: This is a rangefinding study designed to provide an estimate of aquatic toxicity using fixed test concentrations and data measurements at predetermined intervals.

GENERAL INFORMATION

WORK REQUEST NUMBER: [REDACTED]

HASKELL NUMBER: 24119

SERVICE CODE: [REDACTED]

MATERIAL TESTED: [REDACTED]

SYNONYMS/CODES: [REDACTED]

SPONSOR: DuPont Specialty Chemicals

NOTEBOOK ID: [REDACTED]

SUBMITTER'S

NOTEBOOK NUMBER: [REDACTED] Not supplied by sponsor

COMPOSITION: [REDACTED]

CONTAMINANTS: Residual solvent (THF or MIBK). Residual ammonium hydroxide from neutralization of acrylic acid

CAS REGISTRY: [REDACTED]

PURITY: [REDACTED]

MSDS No: Not supplied by sponsor

TEST CONDITIONS

Nominal concentrations tested: 0, 0.5, 1.0, 50, 500, and 5000 mg/L.

Nominal Concentration (mg/L)	Test Initiation (0 hours)				Test Completion (48 hours)			
	Dissolved Oxygen (mg/L)		pH		Dissolved Oxygen (mg/L)		pH	
	A [†]	B [†]	A [†]	B [†]	A [†]	B [†]	A [†]	B [†]
0	8.6	8.5	7.1	7.1	8.9	8.8	7.7	7.7
0.5	8.8	8.8	7.1	7.1	8.8	8.8	7.7	7.7
1.0	8.8	8.8	7.1	7.1	8.8	8.8	7.7	7.7
50	8.7	8.8	7.1	7.1	8.8	8.8	7.7	7.7
500	8.7	8.7	7.1	7.1	8.8	8.8	7.6	7.6
5000	8.7	8.6	7.1	7.1	9.2 ^a	9.2 ^a	7.1 ^a	7.1 ^a

[†] A and B represent replicate test chambers within a dose level concentration.

^a Measurement taken on day 1 (24 hours) due to total immobility.

**H-24119: STATIC, ACUTE 48-HOUR SCREENING TEST
TO *Daphnia magna*, CONTINUED****RESULTS**

Based on visual observations, the water control solution and the 0.5 and 1.0 mg/L test solutions were clear and had no color throughout the test. The 50 mg/L test solutions were clear with a suspended substance, the 500 mg/L test solutions were slightly cloudy with a suspended substance, and the 5000 mg/L test solutions were cloudy and white in color with a suspended substance at test start. The suspended substance in the 50, 500 and 5000 mg/L test solutions settled onto the bottom of the test chambers as a white cloudy film throughout the remainder of the test. Immobilities were 0, 0, 0, 0, 10, and 100% in the 0, 0.5, 1.0, 50, 500 and 5000 mg/L test solutions, respectively. Forty-eight hours after exposure, lethargy was observed in 20% of the remaining mobile daphnids in the 50 mg/L test solutions, and 33% (3/9) of the remaining mobile daphnids in the 500 mg/L test solutions. The 48-hour EC₅₀, based on nominal concentrations and immobility, was between 500 and 5000 mg/L. All water quality parameters were within acceptable limits.

CONCLUSIONS

H-24119 exhibited low toxicity in a 48-hour, unaerated, static acute test using *Daphnia magna*.

WORK/AUTHORED BY:

Laurie D. Bouchelle
Laurie D. Bouchelle
Toxicology Associate

18-June-1999
Day-Month-Year

APPROVED BY:

Paul W. Grube
Paul W. Grube, B.A.
Study Director

18-Jun-1999
Day-Month-Year

DISTRIBUTION:

[REDACTED]