HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINE

H-24119: STATIC, ACUTE 96-HOUR SCREENING TEST TO FATHEAD MINNOWS, *Pimephales promelas*

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: 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: Not supplied by sponsor

TEST CONDITIONS

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

	Test Initiation (0 hours)		Test Completion (96 hours)	
Nominal Concentration (mg/L)	Dissolved Oxygen (mg/L)	pH	Dissolved Oxygen (mg/L)	pH
0	8.9	7.0	2.7	6.9
0.5	8.9	7.0	7.9	7.1
1.0	8.9	7.0	7.1	7.1
50	8.9	7.0	6.6	7.1
500	8.9	7.0	6.8	7.2
5000	9.0	7.3	1.1	6.9

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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 solution was clear with a suspended substance, the 500 mg/L test solution was slightly cloudy with a suspended substance, and the 5000 mg/L test solution was cloudy and white in color with a suspended substance throughout the test. In addition, the 500 mg/L test solution developed a white cloudy film on the bottom of the test vessel after 24 hours that was present throughout the remainder of the study. Mortalities were 0, 0, 0, 0, 0, and 80% in the 0, 0.5, 1.0, 50, 500, and 5000 mg/L test solutions, respectively. The 96-hour LC_{50}, based on nominal concentrations and mortality, was between 500 and 5000 mg/L. All water quality parameters were within acceptable limits with the exception of the D.O. in the water control and the 5000 mg/L test solution. The D.O. of the water control solution and the 5000 mg/L test solution were below what is normally acceptable throughout the final 24 hours of the test, but it did not affect the validity of the study.

CONCLUSIONS

H-24119 exhibited low toxicity in a 96-hour, unaerated, static acute test using Fathead minnows, *Pimephales promelas*.

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DISTRIBUTION: [redacted]