

HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINEH-22762: 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: 22762

TEST CODE: [REDACTED]

MATERIAL TESTED: [REDACTED]

SYNONYMS/CODES: [REDACTED]

SPONSOR: DuPont Specialty Chemicals

NOTEBOOK ID: [REDACTED]

SUBMITTER'S

NOTEBOOK NUMBER: [REDACTED]

COMPOSITION: [REDACTED]

CONTAMINANTS: [REDACTED]

CAS REGISTRY: [REDACTED]

PURITY: [REDACTED]

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 (96 hours)	
	Dissolved Oxygen (mg/L)	PH	Dissolved Oxygen (mg/L)	pH
0	8.6	8.0	7.4	7.6
0.5	8.7	7.9	7.7	7.5
1.0	8.7	7.8	7.6	7.5
50	8.7	7.7	7.6	7.4
500	8.7	7.6	8.5 ^a	6.8 ^a
5000	8.6	7.3	8.5 ^a	6.3 ^a

^a Measurement was taken 24 hours after exposure started due to total mortality.

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RESULTS

Based on visual observations, the water control solution and the 0.5, 1.0, and 50 mg/L test solutions were clear and had no color. The 500 and 5000 mg/L test solutions were cloudy with a surface film and undissolved test material present. At approximately 24 hours, the 500 and 5000 mg/L test solutions were clear and had undissolved test material stuck to the sides and bottom of the test vessels, and a surface film. The remaining test solutions and control remained unchanged throughout the study. Mortalities were 0, 0, 0, 0, 100, and 100 % in the 0, 0.5, 1.0, 50, 500, and 5000 mg/L test concentrations, respectively. Twenty percent of the fish in the 50 mg/L test solution exhibited a partial loss of equilibrium approximately 24 hours after exposure started. At approximately 48 hours after exposure started, all fish in the 50 mg/L test solution appeared normal. The 96-hour LC_{50} , based on nominal concentrations and mortality, was between 50 and 500 mg/L. All water quality parameters were within acceptable limits.

CONCLUSIONS

H-22762 exhibited slight toxicity in a 96-hour, unaerated, static acute test using fathead minnows, *Pimephales promelas*.

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