

HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINEH-23005: 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:** 23005**TEST CODE:** [REDACTED]**MATERIAL TESTED:** [REDACTED]**SYNONYMS/CODES:** [REDACTED]**SPONSOR:** DuPont Specialty Chemicals**NOTEBOOK ID:** [REDACTED]**SUBMITTER'S****NOTEBOOK NUMBER:** None available**COMPOSITION:** [REDACTED]**CONTAMINANTS:** [REDACTED]**CAS REGISTRY:** None available**PURITY:** 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	8.8	8.7	7.3	7.3	9.6	9.6	7.5	7.5
0.5	8.8	8.6	7.3	7.3	9.6	9.5	7.5	7.5
1.0	8.6	8.6	7.3	7.2	9.6	9.5	7.5	7.5
50	8.5	8.6	6.7	6.6	9.7	9.6	7.5	7.5
500	8.6	8.6	6.1	6.1	9.7	9.6	7.5	7.5
5000	8.6	8.5	5.2	5.2	8.7 ^a	8.7 ^a	5.5 ^a	5.5 ^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.

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TO *Daphnia magna*, CONTINUED

RESULTS

Based on visual observations, the water control solution and the 0.5, 1.0, 50, and 500 mg/L test solutions all were clear with no color. The 5000 mg/L test solution was cloudy yellow-white. After 24 and 48 hours undissolved test substance was found at the bottom of all test vessels of 500 and 5000 mg/L test solutions. Immobilities were 0, 0, 0, 0, 70, and 100% in the 0, 0.5, 1.0, 50, 500 and 5000 mg/L, respectively. The 48-hour EC_{50} , based on nominal concentrations and immobility, was between 50 and 500 mg/L. All water quality parameters were within acceptable limits except the pH of 5000 mg/L was low.

CONCLUSIONS

H-23005 exhibited slight toxicity in a 48-hour, unaerated, static acute test using *Daphnia magna*.

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DISTRIBUTION:

[REDACTED]

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