

TRADE SECRET

Study Title

H-24944: Static, Acute, 96-Hour Screening Test to *Pimephales
promelas*

Laboratory Project ID: DuPont-8838

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STUDY COMPLETED ON: November 21, 2001

PERFORMING LABORATORY: E.I. du Pont de Nemours and Company
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WORK REQUEST NUMBER: [REDACTED]

STUDY CODE NUMBER: [REDACTED]

CERTIFICATION

We, the undersigned, declare that this report provides an accurate evaluation of data obtained from this study.

Work Completed by: Laurie D. Bouchelle 21 November 2001
Laurie D. Bouchelle
Associate Scientist
Date

Issued by Study Director: Alan Samel 21 November 2001
Alan Samel, M.S.
Research Ecotoxicologist
Date

Substance Tested:

Synonyms/Codes:

H-24944

Haskell Number: 24944

Composition:

Known Impurities:

Physical Characteristics: Light brown liquid

Sponsor: E. I. du Pont de Nemours and Company
Wilmington, Delaware 19898
U.S.A.

In-Life Initiated/Completed: October 29, 2001 / November 2, 2001

SUMMARY

The acute toxicity of H-24944 to the fathead minnow, *Pimephales promelas* was determined in an unaerated, 96-hour, static test.

The study was conducted with 4 concentrations of H-24944 and a dilution water control at a mean temperature of 21.7°C (range of 21.6-21.7°C). One test chamber was used per test concentration with 10 test organisms in each chamber. Based on visual observations, the water control and the 1, 10 and 100 mg/L test concentrations were clear and colorless at test start. The 1000 mg/L test concentration was clear and pale tan in color at test start. All water quality parameters were within acceptable limits during the exposure.

Exposure of H-24944 to the water control and nominal H-24944 concentrations of 1, 10, 100, and 1000 mg/L resulted in 0, 0, 0, 0, and 0% mortality, respectively, at the end of 96 hours. No mortality or sublethal effects were seen in the water control test organisms. The highest nominal concentration causing no mortality at test end was 1000 mg/L.

The results are summarized as follows:

Nominal concentrations of H-24944, mg/L	dilution water control, 1, 10, 100, and 1000
96-hour LC ₅₀ for H-24944, based on nominal concentrations, mg/L	> 1000

H-24944 exhibited low concern for aquatic hazard^a in an unaerated, 96-hour, static, acute test using the fathead minnow, *Pimephales promelas*.

^a Smrcek, J., Clements, R., Morcock, R., and Rabert, W. (1993). Assessing ecological hazard under TSCA: methods and evaluation of data. *Environmental Toxicology and Risk Assessment, ASTM STP 1179*. (W.G. Landis, J.S. Hughes, and M.A. Lewis, Eds.), pp 22-39. American Society for Testing and Materials, Philadelphia.

TABLE 1

DISSOLVED OXYGEN AND pH OF TEST AND CONTROL SOLUTION SAMPLES

Nominal H-24944 Concentration (mg/L)	Test Initiation (0 hours)		Test Completion (96 hours)	
	Dissolved Oxygen (mg/L)	pH	Dissolved Oxygen (mg/L)	pH
Water Control	8.8	7.7	7.9	7.7
1.0	8.8	7.6	7.9	7.7
10	8.7	7.6	7.6	7.6
100	8.7	7.5	7.9	7.7
1000	8.7	7.4	7.5	7.6

TABLE 2

MORTALITY OF *Pimephales promelas*, IN AN UNAERATED, STATIC, ACUTE, 96-HOUR
TEST WITH H-24944

Nominal H-24944 Concentration (mg/L)	Number of Dead Test Organisms / Number of Test Organisms at Study Start			
	24 Hours	48 Hours	72 Hours	96 Hours
Water Control	0/10	0/10	0/10	0/10
1.0	0/10	0/10	0/10	0/10
10	0/10	0/10	0/10	0/10
100	0/10	0/10	0/10	0/10
1000	0/10	0/10	0/10	0/10