AR226-3212

TRADE SECRET

Study Title

H-25134: Static, Acute, 96-Hour Screening Test to *Oncorhynchus mykiss*

Laboratory Project ID: DuPont-8861

AUTHOR: Laurie D. Bouchelle

STUDY COMPLETED ON: December 21, 2001

PERFORMING LABORATORY: E.I. du Pont de Nemours and Company
Haskell Laboratory for Health and Environmental Sciences
Elkton Road, P.O. Box 50
Newark, Delaware 19714-0050

[redacted]

Company Sanitized. Does not contain TSCA CBI

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 December 2001
Laurie D. Bouchelle
Associate Scientist
Date

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

Category: Sanitized - Does not contain TSCA CBI

STUDY INFORMATION

Substance Tested: [redacted]

Synonyms/Codes: [redacted]
H-25134
[redacted]

Submitter's Notebook Number(s): [redacted]

Haskell Number: 25134

CAS Registry Number: [redacted]

Composition: [redacted]

Purity: [redacted]

Known Impurities: [redacted]

Physical Characteristics: Dark brown solid

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

In-Life Initiated/Completed: December 10, 2001 / December 14, 2001

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SUMMARY

The acute toxicity of H-25134 to the rainbow trout, *Oncorhynchus mykiss* was determined in an unaerated, 96-hour, static test.

The study was conducted with 4 concentrations of H-25134 and a dilution water control at a mean temperature of 11.3°C (range of 11.2-11.3°C). One test chamber was used per test concentration with 10 test organisms in each chamber. Based on visual observations, the water control was clear and colorless, and the 1.0, 10, 100 and 1000 mg/L test concentrations were clear and colorless with undissolved test material on the water surface and on the bottom of the test chambers at test start. All water quality parameters were within acceptable limits during the exposure.

Exposure of H-25134 to the water control and nominal H-25134 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-25134, mg/L	dilution water control, 1, 10, 100, and 1000
96-hour LC_{50} for H-25134, based on nominal concentrations, mg/L	> 1000

H-25134 exhibited low concern for aquatic hazard[a] in an unaerated, 96-hour, static, acute test using the rainbow trout, *Oncorhynchus mykiss*.

[a] Smrchek, 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.

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TABLE 1

DISSOLVED OXYGEN AND pH OF TEST AND CONTROL SOLUTION SAMPLES

Nominal H-25134 Concentration (mg/L)	Test Initiation (0 hours)		Test Completion (96 hours)	
	Dissolved Oxygen (mg/L)	pH	Dissolved Oxygen (mg/L)	pH
Water Control	10.6	7.4	8.7	7.3
1.0	10.8	7.5	9.1	7.3
10	10.8	7.5	8.7	7.3
100	11.0	7.5	8.8	7.3
1000	11.1	7.6	9.0	7.3

TABLE 2

MORTALITY OF *Oncorhynchus mykiss*, IN AN UNAERATED, STATIC, ACUTE, 96-HOUR TEST WITH H-25134

Nominal H-25134 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

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