

7-28-87

DATA EVALUATION RECORD

1. Chemical: Iprodione (Rovral)

Sha. No: 109801

2. Test Material: 95% ai

3. Study Type: Fish 96-hour LC50

Species Tested: Catfish (Ictalurus punctatus)

4. Study ID: Swigert, James P., Brenda B. Franklin, Alan Seidel, and Craig Lindel, Acute Flow-Through Toxicity of Iprodione Technical to Channel Catfish (Ictalurus punctatus); prepared by Analytical Bio-chemistry Laboratories, Inc. (July 17, 1986); Submitted by Rhone-Poulenc, Inc.; Study No. 34385; Acc. No. 264233.

5. Reviewed By:

Daniel D. Rieder  
Wildlife Biologist  
EEB/HED

Signature: Daniel D. Rieder

Date: 7-27-87

6. Approved By:

Allen W. Vaughn, Acting  
Head-Section II  
EEB/HED

Signature: Allen W. Vaughn

Date: 7-28-87

7. Conclusions: This study is scientifically sound. 96-hour LC50 = 3.06 ppm. 95 Confidence Limits = 2.1 - 4.2 ppm. This study will fulfill the guideline requirement for a fish acute 96-hour LC50.

8. Recommendations: N/A

9. Background: This study was submitted to support registration.

10. Discussion of Individual Test: N/A

11. Materials and Methods

Test Material: Iprodione  
Percent active Ingredient: 95%

Test Organism: Catfish  
Species: Ictalurus punctatus  
Acclimation: 14 days,  
0 hrs. without  
Number/concentration: 20

Weight  $\bar{x}$  = 0.094g  
Length:  $\bar{x}$  = 23 mm  
Source: Louisiana State  
University  
No./levels: 20  
Loading factor: 0.06 g/liter

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Test Containers: glass  
Size: 30 liters  
Aerated: No

Replicates: 1

Test Conditions: flowthrough  
Photoperiod: 16 hrs./day  
Temperature: 22° + 1°C  
Controls: solvent  
Way test was begun: fish  
added after Iprodione

Solvent: Acetone  
Test solution: aerated well water  
References: Methods of Acute  
Toxicity Testing with Fish,  
Macroinvertebrates, and  
Amphibians

Statistics: Binomial

12. Reported Results:

96-hour LC50 = 3.1 ppm (measured). 95% C.L. = 2.6 - 3.6 ppm.

CONCENTRATION (PPM) Measured	MORTALITY % 96-hours
Solvent	0
0.22	0
0.52	0
0.96	0
2.1	5
4.2	90

13. Study Author's Conclusions/Q.A. Measures:

The LC50 of Iprodione to catfish is 3.1 ppm.

14. Reviewer's Discussion and Interpretation of the Study

A. Test Procedures: The procedure is acceptable.

B. Statistical Analysis: Independent statistical analysis  
confirmed the reported LC50.

C. Discussion/Results: Iprodione is moderately toxic to catfish  
with a LC50 of 3.06 ppm, 95% C.L. 2.1 -  
4.2 ppm.

D. Adequacy of Study: Core

15. Completion of One-Liner: One liner completed

16. CBI Appendix: N/A

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Rieder Iprodione Ictalurus punctatus 04-23-87

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CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
4.2	20	18	90	2.012253E-02
2.1	20	1	5	2.002716E-03
.96	20	0	0	9.536742E-05
.52	20	0	0	9.536742E-05
.22	20	0	0	9.536742E-05

THE BINOMIAL TEST SHOWS THAT 2.1 AND 4.2 CAN BE  
USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT  
CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL  
ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 3.061726

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN	G	LC50	95 PERCENT CONFIDENCE LIMITS	
1	.1031077	3.061726	2.730452	3.457326

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