

1. Chemical : Omadine Sodium
2. Formulation : Sodium Omadin..... 6.4%
Hexadro-1,3,5-Tris(2 Hydroethyl)-S-trizine..63.6%
70%
3. Citation : LeBlanc, G.; Souse, J. (1982) Acute Toxicity of Triadine 10 To Rainbow Trout (Salmo gairdneri); Report # BW-82-2-1117; Prepared by EG&G Bionomics for the Olin Corporation, New Haven, Connecticut.

4. Reviewed By :

Curtis E. Laird
Fishery Biologist
EEB/HED

Signature: Curtis E. Laird
Date: 7-5-85

5. Date Reviewed : 7-26-83
6. Test Type : 96-hour LC₅₀

A. Test Species : Rainbow Trout

7. Reported Results : The 96-hour LC₅₀ (and 95% confidence interval) for rainbow trout exposed to Triadine 10, estimated by the moving average angle method was 42(34-53) ppm.

8. Reviewer's Conclusions :

This study indicates Omadine Sodium is slightly toxic to rainbow trout with an LC₅₀ value of 42 ppm. The study does not fulfill the requirement in support of registration because a formulated product was used and a mixture of two active ingredients.

9. Material/Methods :

A. Test Procedure :

The test procedure did not comply with the recommended EPA protocol of October 1982 (Part 158).

B. Statistical Analysis : Stephan's 1978

C. Discussion/Results : The 96-hour LC₅₀ value is 42 ppm. as reported.

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
60	10	8	80	5.46875
36	10	4	40	37.6953
22	10	0	0	.0976563
13	10	0	0	.0976563
7.8	10	0	0	.0976563

THE BINOMIAL TEST SHOWS THAT 22 AND +INFINITY 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 40.6999

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN	G	LC50	95 PERCENT CONFIDENCE LIMITS	
2	.214883	41.719	34.0431	55.2839

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS	G	H	GOODNESS OF FIT PROBABILITY
7	.331956	1	.864205

SLOPE = 6.60565
 95 PERCENT CONFIDENCE LIMITS = 2.79976 AND 10.4115

LC50 = 42.5459
 95 PERCENT CONFIDENCE LIMITS = 34.0415 AND 55.6225

LC10 = 27.3274
 95 PERCENT CONFIDENCE LIMITS = 14.7408 AND 34.1309
