

DATA EVALUATION RECORD



- 1. Chemical: Amitrole
- MRID 60160453
- 2. Test Material: 96.5% (technical ai), a white powder
- 3. Study Type: 96-hour LC50

Species Tested: Bluegill Sunfish

- 4. <u>Study ID</u>: McAllister, W.A. (1985) Acute Toxicity of Aminotriazole to Bluegill Sunfish (Lepomis <u>Macrochirus</u>); Report No. 33716; prepared by Analytical Bio-Chemistry Laboratories, Inc. for Union Carbide, P.O. Box 12014, Research Triangle Park, North Carolina 27709; Accession No. 263211.
- 5. <u>Reviewed by</u>: Curtis E. Laird Fishery Biologist EBB/HED

Signature: Curtis E. Javid	
Date: 9-2	3-86
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Date:	9.24.86

- 6. <u>Approved by</u>: Norman Cook Supervisory Biologist EEB/HED
- 7. Conclusions:

This study indicates Amitrole is practically nontoxic to bluegill sunfish with an LC_{50} greater than 1000 ppm. This study does fulfill the requirement in support of registration for a warmwater fish study.

- 8. Recommendations: N/A.
- 9. Background:

EEB requested this study in order to fulfill the data gap in the reregistration process.

10. Discussion of Individual Test: N/A.

11. Materials and Methods:

- a. Test Animals: Bluegill sunfish Lepomis macrochirus from Osage Cafisheries, Osage Beach, MO; Mean weight
 0.21 g, mean standard length of 21 + 1.1 mm.
- b. Test System: Five (5) gallon glass/15 L of test solution; static exposure to water at 22 °C; 96 hours duration.
- c. <u>Dose</u>: Static bioassay using nominal concentration; no solvent used.
- d. Design: Ten fish per level; five dose levels plus control (0, 62.5, 125, 250, 500, and 1000 ppm).
- e. <u>Statistics</u>: Stephan's et al. 1978 computer program for calculating LC₅₀. No statistics were performed due to lack of mortality.

12. Reported Results:

The 24-, 48-, and 96-hour LC_{50} values were determined to be greater than 1000 mg/L. The 96-hour no-observed-effect concentration was estimated to be greater than 1000 mg/L, which was based on the lack of mortality and abnormal effects at the highest concentration tested.

13. Study Author's Conclusions:

The 24-, 48-, and 96-hour LC_{50} values for Aminotriazole were all > 1000 mg/L. All results were based on the nominal concentrations of 62.5, 125, 250, 500, and 1000 mg/L. The 96-hour no-observed effect concentration was estimated to be 1000 mg/L, the highest concentration tested, based on the lack of mortality or observed abnormal effects.

14. Reviewer's Discussion and Interpretation of the Study

- a. <u>Test Procedures</u>: The test procedure complied with the recommended EPA Protocol of October 1982.
- b. <u>Statistical Analysis</u>: No statistics were performed due to lack of mortality.
- c. <u>Discussion/Results</u>: With a 96-hour LC₅₀ > 1000 ppm, Amitrole 96.5% ai is practically nontoxic to bluegill sunfish.

- Adequacy of Study: đ.
 - 1. Category: Core. Rationale: N/A.
 - 2.
 - Reparability: N/A. 3.
- 15. Completion of One-Liner: Yes.
- 16. CBI Appendix: N/A.