

US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

1. CHEMICAL: Namacur
2. FORMULATION: 88% Technical
3. CITATION: Nelson, D.L. and M.A. Burke (1977) Acute Oral Toxicity of Namacur Technical to Mallard Ducks. Unpublished Report No. 54137 submitted by Mobay Chemical Corporation, Kansas City, MO.
4. REVIEWED BY: L.W. Touart
Fisheries Biologist
HED/EEB
5. DATE REVIEWED: 12/17/79
6. TEST TYPE: Avian Acute Oral LD₅₀ (waterfowl)
 - A. TEST SPECIES: Mallard Duck
7. REPORTED RESULTS: Under the conditions of this study, the following LD₅₀ values with their 95% confidence limits were determined:

Males: 1.0 (0.9 to 1.2) mg/kg

Females: 0.9 (0.8 to 1.1) mg/kg
8. REVIEWERS CONCLUSIONS: The study is not scientifically sound and did not follow the proposed guidelines of July 1978. The study did not adequately document the test procedures. The study does not fulfill the requirements for an avian acute oral LD₅₀.

Materials/Methods

Test Procedures

The test procedures were not adequately documented. Additional information needed includes: Age to test animals at initiation of study, history of rearing, housing conditions, weights (Day 0, 3, 7, 14), measure of food consumption and % A.I. of the technical. Proper controls were not maintained.

Statistical Analysis

Mortalities were analyzed by the method of Carol S. Weil, Biometrics Vol. 8, No. 3, 1952, to determine the LD₅₀ value.

Reviewers Evaluation

A. Test Procedure

The test procedure does not comply with the recommended EPA 1978 protocol. Proper controls were absent.

B. Statistical Analysis

N/A

C. Discussion/Results

Failure to document methods and to maintain controls renders this study unacceptable.

D. Conclusions

1. Category: Invalid
2. Rationale: Proper controls were not maintained.
3. Repairability: No.