

DATA EVALUATION RECORD

1. Chemical: Carbendazim 128872
2. Test Material: > ^{98% C.E. 9-18-86} 99% (technical ai), an off-white powder
3. Study Type: Acute Oral LD50
Species Tested: Bobwhite quail
4. Study ID: Beavers, J.B. (1985) An Acute Toxicity Study in the Bobwhite Quail; Project No. 112-163; Prepared by Wildlife International LTD. for E.I. du Pont de Nemours & Company, Elkton Road, Newark, Delaware 19711; Accession No. 260572.
5. Reviewed by:
Curtis E. Laird
Fishery Biologist
EEB/HED
Signature: Curtis E. Laird
Date: 6-10-86
6. Approved by:
Norman Cook,
Supervisory Biologist
EEB/HED
Signature: Norman Cook
Date: 6-12-86
7. Conclusions: This study indicates carbendazim is practically non-toxic to bobwhite with an LD50 > 2250 mg/kg. This study does fulfill the requirement in support of registration for an avian acute oral LD50 study.
8. Recommendations: N/A.
9. Background: Submission of further data to support registration of new chemical.
10. Discussion of Individual Test: N/A.
11. Materials and Methods:
 - a. Test Animals: Sixty 6-month-old bobwhite (Colinus virginianus) from Fritt's Quail Farm, Phillipsburg, New Jersey
 - b. Test System: Georgia Quail Farm Breeder Units were used as pens, 71°F ± 4°F, humidity was 64 percent.
 - c. Dose: Acute oral LD50 using nominal concentration.



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- d. Design: Ten birds per dose level; 5 dose levels plus control (292, 486, 810, 1350, and 2250 mg/kg).
 - e. Statistics: No statistics were performed due to lack of mortality.
12. Reported Results: The acute oral LD₅₀ value was determined to be greater than 2250 mg/kg.
13. Study Author's Conclusions:
- There were no mortalities in the control group. All birds were normal in appearance and behavior throughout the test period. There was no mortality at any test concentration during the study. At the 810 mg/kg dosage one female was noted displaying a ruffled appearance approximately 1 1/2 hour after dosing. In addition, one hen at 2250 mg/kg also displayed a ruffled appearance approximately 2 1/2 hours after dosing. After 1 day, both hens appeared normal. All other birds at all concentrations were normal in appearance and behavior throughout the test. Compared to controls there was a slight reduction in the body weight gain among males at the 2250 mg/kg dosage for the day 0 through 3 period. Bobwhite acute oral LD₅₀ value for carbendazim was greater than 2250 mg/kg, the highest dosage tested.
14. Reviewer's Discussion and Interpretation of the Study:
- a. Test Procedures: The test procedure complied with the recommended EPA protocol of October 1982 (Part 158).
 - b. Statistical Analysis: No statistics were performed due to lack of mortality data.
 - c. Discussion/Results: The acute oral LD₅₀ value is greater than 2250 mg/kg.
 - d. Adequacy of Study:
 - 1. Classification: Core.
 - 2. Rationale: N/A.
 - 3. Repairability: N/A.
15. Completion of One-Liner: Yes
16. CBI Appendix: N/A