DATA EVALUATION RECORD

1. Chemical: HOE-33171 OH AT 203

2. Formulation: 96.6 ± 0.9%

3. Citation: Beavers, J.B. (1982). Eight-day Dietary LC_{50} - Bobwhite quail, HOE-33171 OH AT 203, Final Report. Project No. 125-127. Wildlife International, Ltd. Acc. # 071796.

4. Reviewed By: Carol M. Natella
Wildlife Biologist
EEB/HED

5. Date Reviewed: October 6, 1983

6. Test Type: Avian dietary LC_{50}

7. Report Results: LC_{50} > 5620 ppm

8. Reviewer's Conclusions:

This study is scientifically sound and indicates that HOE-33171 OH AT 203 is practically non-toxic to bobwhite quail. The study does fulfill the requirements for an avian dietary LC_{50}.

MATERIALS/METHODS

Test Procedures

Test Animals: Bobwhite quail (Colinus virginianus), 14 days old from Wildlife International's production flock. Hatchlings were placed in Beacon battery brooders, temperature was maintained at 100°F throughout the eight-day study. Photoperiod was fourteen hours of light per day.

Testing: 10 birds/pen; 10 birds/concentration. ~~The treatment concentration.~~ The treatment concentrations were 562, 1000, 1780, 3160, and 5620 ppm.

Statistical Analysis

The LC_{50} value for the laboratory standard was calculated by probit analysis.

Discussion/Results

Controls: There were no mortalities in the negative control groups. All birds were normal in appearance and behavior throughout the test period.

Experimental material: There was one mortality at the 3160 ppm concentration level. This bird was found dead on Day 8 with lesions pathognomonic of toe picking. No other mortalities occurred at any concentration level tested, and all other birds were normal in appearance and behavior throughout the test period. There was, however, a reduction in body weight gain at the 5620 ppm concentration level, and a slight reduction in feed consumption at the 562 ppm, 1000 ppm and 5620 ppm concentration level.

Laboratory standard (dieldrin): LC_{50} = 33 ppm (95% C.L. 28-40 ppm).

REVIEWER'S EVALUATION

A. Test Procedure

The test procedure complies with the recommended US EPA protocal.

B. Statistical Analysis

Statistical analysis for the laboratory standard LC_{50} value was not verified.

C. Conclusions

1. Category: Core

2. Rationale: N/A

3. Repairability: N/A