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} - Mallard Duck, HOE-33171 OH AT 203, Final Report. Project No. 125-128. 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. Reported 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 mallard ducks. The study does fulfill the requirements for an avian dietary LC_{50}.

MATERIALS/METHODS

Test Procedures

Test Animals: Mallard ducks (Anas platyrhynchos), 14 days old, from Wildlife International's production flock. Hatchlings were placed in Beacon battery brooders, temperature was maintained at 75°F throughout the eight-day study. Photoperiod was fourteen hours of light per day.

Testing: 10 birds/pen; 10 birds/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

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

HOE-33171 OH AT 203 did not cause overt symptoms of toxicity or behavioral abnormalities at the concentration levels tested. There were no mortalities at any concentration tested. There was, however, a slight reduction in feed consumption at the 1780 ppm concentration level and a concentration related reduction in body weight gain and feed consumption at the 3160 ppm and 5620 ppm concentration level.

The LC_{50} for the laboratory standard (dieldrin) was found to be 106 ppm (95% CL 90-125 ppm).

REVIEWER'S EVALUATION

A. Test Procedure

The test procedure complies with the recommended US EPA protocol.

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