Data Evaluation Report Ecological Effects Branch

- 1. Chemical: Bromacil
- 2. Test Material: Received by the laboratory on March 27 and identified as H-16287 with a purity of 96.6 %
- 3. Study Type: Acute oral LD50 test with bobwhite quail
- 4. Study Identification:

Study Author: Grimes, Jenny

Study Laboratory: Wildlife International, Easton, Md.

Study Dates: April 28- May 12, 1986

Identification: Study No. 112-173

Sponsor: E.I. duPont de Nemours and Co.

EPA Identification: MRID 409515-01

5. Reviewed by: Brian Montague, Fisheries Biologist Montague

Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)

6. Approved by: Ray Matheny, Supervisory Biologist Con Mathy 9/13/90
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7. Conclusions: The study has followed Agency guidelines for acute oral testing of an upland gamebird species. The LD_{50} has been established to be over 2250 mg/Kg which was the highest dosage tested. The NOEL based on slight reductions in body weight gains at 1350 ppm is 810 mg/Kg.

8. Recommendations: N/A

9. Submission Purpose: To satisfy registration guideline requirements.

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10. Study Methods and Protocol: Procedures were based on 71-1 quidelines presented in FIFRA Subdivision E.

Test Organisms: Bobwhite quail, 21 weeks of age, were used. The birds were obtained from Fritts Quail Farm Phillipsburg, N.J. and weighed from 172-213 gms. were acclimated 18 days before test initiation. The quail gamebird ration developed at Wildlife fed a Water and feed were available ad libitum International. except for a 15 hour fasting period prior to test initiation.

Test Diet: Corn oil was used as the test diet vehicle and dosages were adjusted upward to correct to 100% active ingredient. The dosages prepared were 292, 486, 810, 1350, and 2250 mg/Kg.

Test Materials and Procedures: The birds were randomly assigned to galvanized steel wire cages measuring 78x51 cm and equipped with sloping floors. Five males or five females were assigned to each pen with 2 pens employed for each dosage level (5 os and 59s). Room temperature averaged 76 ± 69 and humidity averaged 74%. An 8D/16N was employed at a 12 footcandle intensity. Birds were observed twice daily during the test and body weights were measured on days 0, 3, 7, and 14. Estimated food consumption was determined for days 0-3, 4-7, and 8-14, but does not account for spillage.

- 11. Reported Test Results: No mortalities occurred in any of the test levels or the controls and all birds appeared normal. A slight reduction in body weight for 1350 ppm dosed females and 2250 ppm dosed males and females was also accompanied by a slight reduction in food consumption. This food consumption reduction did not extend past the third day. By day 14 all body weights had returned to levels comparable to the controls.
- 12. Study Author's Conclusions: "In conclusion, the bobwhite acute oral LD₅₀ value for H-16,287 was determined to be greater than 2250 mg/Kg, the highest dosage tested. The no-observed-effect dosage was 810 mg/Kg, based on a reduction in body weight gain in females at 1350 mg/Kg."
- 13. Reviewers Discussion: The study appears to have followed acceptable protocol and procedures. The test material is shown to be practically non-toxic to bobwhite quail.

 Adequacy of Study:

Classification: Core

Rationale: Study appears to be scientifically sound. Repairabilty: N/A