

5-4-87

TDMS

DATA EVALUATION RECORD

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CASE GS

PM

CHEM Diazinon

BRANCH EEB

DISC

FORMULATION Technical, 14G (14.3% ai granular)

FICHE/MASTER ID ROODI002

CITATION: Hill, E.F.; Camardese, M.B. (1984) Toxicity of Anticholinesterase Insecticides to Birds; Technical Grade Versus Granular Formulations. Ecotoxicology and Environmental Safety. 8:551-563.

SUBST. CLASS=

OTHER SUBJECT DESCRIPTORS
PRIM:

DIRECT REVIEW TIME= 1 week (MH) START DATE April 1986 END DATE April 1986

REVIEWED BY: Margaret Rostker
TITLE: Wildlife Biologist
ORG: EEB
LOC./TEL: 557-7600

H. T. Craven

5/4/87

SIGNATURE:

APPROVED BY: Harry Craven
TITLE: Supervisory Biologist
ORG: EEB
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Harry T. Craven

5/4/87

This study is supplemental due to lack of all raw data and minor deviations from guidelines. It is useful in hazard assessment and shows Diazinon LD₅₀ = 10 mg ai/kg to bobwhite Quail when technical material is tested, and Bobwhite LD₅₀ = 8 mg ai/kg when granular 14.37% ai (14G) is tested.

22 (1992) ✓

71.1

1/3

DATA EVALUATION RECORD

1. Chemical: Diazinon
2. Test Material: Technical and 14.3% ai granular (14G).
3. Study Type: Single oral dose to Bobwhite Quail
4. Study ID: Hill, E.F.; Camardese, M.B. (1986) Toxicity of Anticholinesterase Insecticides to Birds: Technical Grade Versus Granular Formulations. Ecotoxicology and Environmental Safety. 8:551-563.
5. Reviewed by: Margaret Rostker
Wildlife Biologist
EEB/HED
Signature: *H.T. Craven*
Date: *5/4/87*
6. Approved by: Harry Craven
Supervisory Biologist
EEB/HED
Signature: *Henry T. Craven*
Date: *5/4/87*
7. Conclusions:

Diazinon LD₅₀ = ¹/₅₀ mg/kg ai for technical and 8 mg/kg ai for 14G for Bobwhite Quail.

The study provides useful data for a hazard assessment but are classed Supplemental because the tests were not conducted strictly according to guidelines.
8. Recommendations: N/A
9. Background: N/A
10. Discussion of Individual Test:

Diazinon is discussed in this DER.

Length of Study?
NOEC / LOEC?
% ai Tech?
CL's ?

11. Materials and Methods:

- a. Test Animals: Ten to twelve week old Bobwhite Quail from Fayetteville, North Carolina were purchased and held in test facilities. The Bobwhite were tested at 16 to 20 weeks of age, with mean weight = 205 g.
- b. Dose: Oral dosing.
- c. Design: 5 dose levels, geometrically spaced; 10 birds per dose level.
- d. Statistics: Probit analysis; two-tailed to test.

12. Reported Resulted:

LD₅₀ = 10 mg ai/kg for technical grade and LD₅₀ = 8 mg ai/kg for 14G.

13. Study Author's Conclusions/QA Measures:

See reported results.

14. Reviewer's Discussion and Interpretation of Study:

- a. Test Procedures: The study is in accordance with guideline protocols.
- b. Statistical Analysis: The analysis was properly conducted.
- c. Discussion/Results: See reported results. Diazinon is considered "very highly toxic" to birds.

15. Adequacy of Study:

1. Classification: Supplemental.
2. Rationale: Guideline deviations though only minor.
3. Repair: N/A.