

US EPA ARCHIVE DOCUMENT

5-4-87
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DATA EVALUATION RECORD

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CASE GS _____

PM ____/____/____

CHEM Diazinon

BRANCH EEB DISC _____

FORMULATION Technical and 48% ai emulsifiable concentrate (AG500)

FICHE/MASTER ID ROODI003

CITATION: Hill, E.F.; Camardese, M.B. (1986) Lethal Dietary Toxicities of Environmental Contaminants and Pesticides to Coturnix USDI, FWS Technical Report 2., Washington, DC.

SUBST. CLASS=

OTHER SUBJECT DESCRIPTORS
PRIM:

DIRECT REVIEW TIME= 1 day (MH) START DATE May 1986 END DATE May 1980

REVIEWED BY: Margaret Rostker
TITLE: *jr* Wildlife Biologist *H.T. Craven*
ORG: EEB
LOC./TEL: 557-7600

5/4/87

SIGNATURE:

APPROVED BY: Harry Craven
TITLE: Supervisory Biologist
ORG: EEB
LOC./TEL: 557-7600

5/4/87

SIGNATURE: *Harry T. Craven*

This study is sound and useful in a hazard assessment. It shows Coturnix LC50 = 167 ppm for technical diazin and LC50 = 101 ppm for A6500 (48% ai emulsifiable concentrate).

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DATA EVALUATION RECORD

1. Chemical: Diazinon
2. Test Material: Technical grade and 48% ai emulsifiable concentrate (AG500).
3. Study Type: Dietary Toxicity to Japanese Quail (Coturnix japonica).
4. Study ID: Hill, E.F.; Camardese, M.B. (1986) Lethal dietary toxicities of environmental contaminants and pesticides to Coturnix. USDI, Fish and Wildlife Service. Technical Report 2, Washington, DC.
5. Reviewed by: *jr* Margaret Rostker *H.T. Craven* Signature:
Wildlife Biologist
EEB/HED Date: 5/4/87
6. Approved by: Harry Craven Signature: *Harry Craven*
Supervisory Biologist
EEB/HED Date: 5/4/87
7. Conclusions:

The study is scientifically sound and shows an LC₅₀ = 167 ppm for technical material and an LC₅₀ = 101 ppm for emulsifiable concentrate (AG500; 48% ai) when tested with Coturnix.

The data do not fulfill guidelines because Coturnix is not a recommended test species. However, the study is sound and useful in hazard assessment.
8. Recommendations: N/A
9. Background: N/A
10. Discussion of Individual Test: Diazinon is discussed.

11. Materials and Methods:

- a. Test Animals: Incubator-hatched of Coturnix conlony maintained at Patuxent. 14-day old chicks tested.
- b. Dose: Dietary.
- c. Design: Five dose levels/10 birds per level/5-day exposure.
- d. Statistics: Probit analysis.

12. Reported Results:

Diazinon LC₅₀ = 167 ppm for technical grade and LC₅₀ = 101 ppm for emulsifiable concentrate (48% ai) for Coturnix.

13. Study Author's Conclusions/QA Measures:

See reported results.

14. Reviewer's Discussion and Interpretation of Study:

- a. Test Procedures: Conducted in accordance with guidelines.
- b. Statistical Analysis: No additional work needed.
- c. Discussion/Results: See reported results. Diazinon is "very highly toxic" to birds.
- d. Adequacy of Study:
 1. Classification: Supplemental
 2. Rationale: Not recommended species; raw data not provided.
 3. Repair: N/A.