5-4-87

TDMS DATA EVALUATION RECORD PAGE 1 OF

CASE GS ___ _____ PM ___ ___/___/___

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CHEM Diazinon _____

BRANCH EEB DISC ___

FORMULATION Technical and 48% ai emulsifiable concentrate (AG500)

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FICHE/MASTER ID RO0DI003

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

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SUBST. CLASS=

OTHER SUBJECT DESCRIPTORS
PRIM:

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

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REVIEWED BY: Margaret Rostker
TITLE: Wildlife Biologist H.T. Craven 5/4/87
ORG: EEB
LOC./TEL: 557-7600

SIGNATURE:

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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 $LC_{50}$ = 167 ppm for technical diazin and $LC_{50}$ = 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 toxicites of environmental contaminants and pesticides to Coturnix. USDI, Fish and Wildlife Servicr. Technical Report 2, Washington, DC.

5. Reviewed by: Margaret Rostker Signature: H.T. Craven
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 $LC_{50}$ = 167 ppm for technical material and an $LC_{50}$ = 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 $LC_{50}$ = 167 ppm for technical grade and $LC_{50}$ = 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.

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