US ERA ARCHIVE DOCUMENT

Sext to DAMM.
12/12/51

D164207
DPBARCODE (RECORD)
128992
SHAUGHNESSY NO

REVIEW NO.

EEB REVIEW

DATE IN: 05-10-91 OUT:
CASE # : 004595 REREG CASE #: SUBMISSION # : S395637 LIST A, B, C, D ID # : 001812-00327
DATE OF SUBMISSION 03-01-91
DATE RECEIVED BY EFED 05-10-91
SRRD/RD REQUESTED COMPLETION DATE08-27-91
EEB ESTIMATED COMPLETION DATE 08-27-91
SRRD/RD ACTION CODE/TYPE OF REVIEW 400 - Data-Misc
MRID #(S) 417994-01
DP TYPE 001 - Submission Related Data package
PRODUCT MANAGER, NO. P. Hutton (18)
PRODUCT NAME(S)Sulfluramid (GX-071)
TYPE PRODUCT F R I N H D Insecticide
SUBMISSION PURPOSE Review bobwhite quail dietary
INCLUDE USE(S) study
COMMON CHEMICAL NAME Sulfluramid

DP BARCODE: D164207

CASE: 004595

DATA PACKAGE RECORD

SUBMISSION: S395637

BEAN SHEET

DATE: 05/09/91

Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION

ACTION: 400 DATA-MISC DATA-NOT REQUES

CHEMICALS: 128992 N-Ethyl perfluorooctanesulfonamide

98.5000%

GX-071 TECHNICAL ID#: 001812-00327 COMPANY: 001812 GRIFFIN CORPORATION

PRODUCT MANAGER: 18 PHILLIP HUTTON

703-557-2690 ROOM: CM2 207

PM TEAM REVIEWER:

MICHAEL MENDELSOHN

703-557-4409 ROOM: CM2 203

DUE OUT DATE: 11/06/91 RECEIVED DATE: 03/01/91

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 164207 EXPEDITE: N

DATE SENT: 05/09/91 DATE RET.:

LABEL: N

'EMICAL: 128992 N-Ethyl perfluorooctanesulfonamide

' TYPE: 001 Submission Related Data Package _MIN DUE DATE: 08/27/91

CSF: N

ASSIGNED TO

DATE IN

DATE OUT

DIV : EFED

05/10/91 09/05/9/

BRAN: EEB

09/05/91

SECT:

REVR: CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

Attention Curtis Laird:

Please review the attached study. Thanks.

8 -Day Acute Dieatary LC50 Study in Bobwhite Quail MRID # 417994-01

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

LABEL DUE BACK CSF DP BC BRANCH/SECTION DATE OUT INS 05/09/91 08/27/91 Y N N 164205 EEB

100.0 <u>Pesticide Name:</u>

Sulfluramid (GX-071)

100.3 Submission Purpose:

Submission of an avian dietary LC50 study

101.0 Chemical and Physical Properties:

101.1 Common Name:

Sulfluramid

103.0 <u>Toxicological Properties:</u>

8-Day Dietary LC50 for bobwhite

105.0 <u>Conclusions:</u>

This study indicates sulfluramid is highly toxic to bobwhite quail with an LC_{50} of 286 ppm. This study does fulfill the requirement in support of registration for an avian dietary LC_{50} study.

There were reductions in body weight and food consumption at all dose levels, including 78 ppm (lowest level tested). Therefore, the NOEL is < 78 ppm when compared to control instead of 156 ppm based on mortality.

Cutin E. Laid 9-4-91 Curtis E. Laird, Fishery Biologist Ecological Effect Branch Environmental Fate and Effects Division (H7507C)

W. Douglam 9.4.91 Vaughan, Acting Head-Section 2

Ecological Effects Branch

Environmental Fate and Effects Division (H7507C)

Douglas Urban, Acting Chief 9/4/9/ Ecological Effects Branch

Environmental Fate and Effects Division (H7507C)

DATA EVALUATION RECOR

- 1 CHEMICAL: Sulfluramid
- 2. TEST MATERIAL: 96.5% (technical a i.)
- 3. TEST TYPE: 8-Day Dietary LC50

Test Species: Bobwhite Quail (Colinus virginianus)

4. STUDY IDENTIFICATION:

Carol A. Petersaon (1990) 8-Day Dietary LC₅₀ Study in Bobwhite Quail; Project No. 90 QC 151; Prepared by Bio-Life Associates, Ltd for Griffin Corporation, Rocky Ford Road, Valdosta, GA 31601-1847; Acc. No. 417994-01.

5. REVIEWED BY:

Curtis E. Laird Fishery Biologist EEB/EFED

6. APPROVED BY:

Norman J. Cook Supervisory Biologist EEB/EFED

7. CONCLUSIONS:

Date: -9-3-9/

9.4.91

This study indicates sulfuramid in highly toxic to bobwhite quail with an LC^{50} of 286 ppm. This study does fulfill the requirement in support of registration for an avian deitary LC_{50} study.

There were reductions in body weight and food consumption at all dose levels, including 78 ppm (lowest level tested). Therefore, the NOEL is < 78 ppm instead of the reported 156 ppm based on mortality.

- 8. RECOMMENDATIONS: N/A
- 9. BACKGROUND:

This study was submitted in support of sulfluramid registration.

10. DISCUSSION OF INDIVIDUAL TEST: N/A

11. MATERIAL TESTED:

- A. <u>Test Animals:</u> Test animals were 11-day old bobwhite quails. Eggs were purchased from Oak Ridge Game Farm and incubated at Bio-Life Associates, Ltd.
- B. Test Design:

 Birds were tested in a 45.7 x 61.0 x
 45.7 cm wire pens; photoperiod was 24hours per day; temperature ranged from
 90° F to 110° F; relative humidity
 ranged from 33% to 65%.
- C. <u>Dose:</u> Ten birds per dose level; 5 dosage levels plus negative control (0, 78, 156, 312, 625, and 1250 ppm).
- D. Statistical Analysis:

Wilcoxon and Litchfield

12. Reported Results:

The study author found the 8-day dietary LC_{50} to be 300 ppm and the no-observed-level was 156 ppm.

13. STUDY AUTHOR'S CONCLUSION/QA MEASURES:

The Quiality Assurance Officer claimed that this study was conducted according to the Good Laboratory Practice Standard.

14. REVIEWER'S DISCUSSION AND INTERPRETATION OF THE STUDY:

- A. <u>Test Procedure:</u> The test procedure complied with the recommended EPA protocol of October 1982.
- B. <u>Statistical analysis:</u> The statistics were verified with Stephan's computer program (binomial test) as 286 ppm.
- C. <u>Discussion/Result:</u> GX-071 was considered to be highly toxic to bobwhite quail with an LC₅₀ of 286 ppm.

D. Adequacy of Study:

1. Category: Core

2. Rationale: N/A

3. Reparable: N/A