EFED Document Number

E9001447

Shaughnessy 103395

DATA EVALUATION RECORD

1. CHEMICAL: Streptomycin sulfate

2. TEST MATERIAL: Agri-Strep

3. TEST TYPE: Acute Toxicity for Freshwater Fish- Bluegill

4. STUDY IDENTIFICATION: Fredrick G. Pitcher, A Fish Toxicity Laboratory Report, February 23, 1981.

5. REVIEWED: Carol J. Belew, Biological EFED/EEB Carol J Belew

6. APPROVED: Les Touart, Section Head EFED/EEB L Touart 6/16/92

7. CONCLUSION: This study is scientifically sound and fulfills the requirements for a core study. The study indicates that Streptomycin is practically non-toxic Bluegill at the highest concentration tested (180 ppm) during the 96 hour observation period.

8. METHODS AND MATERIALS: See attached Laboratory Report.

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P. JOHNSON RAVEN 9-15-82

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Chemical & Biological Investigations Branch, TSD
Bldg 402, ARC-East, Beltsville, Md. 20705

1 of 1

BIOLOGICAL LABORATORIES REPORT

From Region _____ Date October 16, 1974

SAMPLE IDENT

Sample MB 283 Code(s) EPA Reg # 618-28-AA Establishment #
Product Name Agri-Strep
Manufacturer & Address Merck Chemical Division, Merck Company Rahway, New Jersey
Physical Form [x] Conc [ ] W.P. [ ] F.S. [ ] Aero. [ ] Dust [ ] Granular [ ] Bait _____ [ ] Other _____
Ingredients: Streptomycin sulfate 21.2%

TEST

Laboratory: Animal Biology Method: TSD 1.206
Type Test: Static Jar Test Duration: 96 hr.
Test Organism(s): Bluegill (L. macrochirus) Diluent: Water
Source: Welaka National Fish Hatchery
Average Length: 28 mm Average Weight: .31 gm
Fish/Jar: 10 Fish/Conc: 10 Conc. Tested: 3 Water Volume: 15 l
Water Temperature: 18 °C Dissolved O_2: > 6 ppm Calcium Hardness: 17.1 ppm
pH: 7.0
Alkalinity: 41.04 ppm. Dissolved CO_2: < 10 ppm Total Hardness: 51.3 ppm
Test number: 750

SUMMARY

Agri-Strep can not be expected to kill bluegill at a concentration of 180 ppm within 96 hours of exposure.

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RESULTS

Agri-Strep was added to vessels, each containing 10 bluegill to obtain concentrations of 180, 100, 56 ppm. No mortality occured in the highest concentration tested during the 96 hour observation period.

MICROFICHE CREATED
DATE: 2-23-81

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Laboratory Supervisor: John A McLean

Tested By: Richard L Ritchie