

US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

1. CHEMICAL: Phosmet SN: 59201
2. TEST MATERIAL: TGAI 94.3%
3. STUDY/ACTION TYPE: Fish early life stage study
4. STUDY IDENTIFICATION: *W.A. McCallister actual Study Director*
Cohle, P. 1988. Early life stage toxicity of C14-Phosmet to rainbow trout (Salmo gairdneri) in a flow through system. Prepared by ABC Laboratories, Inc. Columbia, MO Submitted by ICI Agrochemicals, England. MRID: 409387-01.
5. REVIEWED BY:
David Johnson, Fishery Biologist Signature: *David Johnson*
Ecological Effects Branch Date: *04/03/89*
6. APPROVED BY:
Harry Craven, Head, Section 4 Signature: *Harry Craven*
Ecological Effects Branch Date: *04/03/89*
7. CONCLUSIONS:
The Ecological Effects Branch cannot evaluate the study authors' conclusions, because the data were not included with the report. This study supplies supplemental information. Based on length measurements at 60-days, the NOEL was 3.2µg/L, the LOEL was 6.1µg/L, and the MATC was 4.4µg/L.
8. RECOMMENDATION: Submit the raw data.
9. BACKGROUND: n/a



10. DISCUSSION OF INDIVIDUAL STUDIES OR TESTS: n/a

11. METHODS AND MATERIALS:

Source. Mt Lassen Trout Farm, Red Bluff, CA

Food. The food source was identified as mash and pellet food, and Artemia nauplii.

Test water

Temperature: 8.5+₋1°C

Water source and chemistry: well water.

The properties of the adjusted water are:

Hardness= 40-50 mg/L total, pH= 8

Aeration: The test solutions were aerated.

Solvent: DMF

Controls: A Control was run concurrent with the test.

Test System.

Vessel Size/Volume: 28x15.5x27=11.7L

Flow rate: 54 ml/min/replicate

Vessel Construction: Glass

Photoperiod: 16h-light/8h-dark

Number of Fish/concentration: 30/vessel, 120/conc

Test Levels: measured: 3.2, 6.1, 12, 24, 51 PPB

Toxic signs. mortality, weight, length

Statistical analysis. Systat software was used. ANOVA tests were performed.

12. REPORTED RESULTS:

Data

The data were included with the study report.

Analysis of Test Concentrations Chemical analyses of the test concentrations were performed. Results are reported by measured concentrations.

13. STUDY AUTHOR'S CONCLUSIONS/QUALITY ASSURANCE MEASURES:

Fry survival was significantly reduced only in level 3 on day 35, and only in levels 4 and 5 on day 60. On day 35, length was significantly reduced in levels 3-5. On day 60 length was significantly reduced in levels 2-5, and weight was significantly reduced in levels 3-5. Based on 60-day length measurements, the NOEL was 3.2 μ g/L, the LOEL was 6.1 μ g/L, and the MATC was 4.4 μ g/L.

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

A. Test Procedure.

This study was performed under conditions that seem to comply with current Guideline standards. A Quality Assurance Statement was included with the report.

B. Statistical Analysis.

C. Results/Discussion.

The Ecological Effects Branch cannot evaluate the study authors' conclusions, because the data were not included with the report.

D. Adequacy of the Study.

1. Category: supplemental

2. Rationale: The data were not included. Thus the statistics could not be verified.

3. Remedy: Supply the raw data.

E. COMPLETION OF ONE LINER 04/03/89

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