

US EPA ARCHIVE DOCUMENT

File No. 128850

DATA EVALUATION RECORD

1. CHEMICAL: Monoammonium-2-amino-4-(hydroxymethyl phosphinyl) butanate

2. FORMULATION: (HOE 39866 OH SL19 A127) Soluble concentrate 200 g/L 19% a.i.

3. CITATION: R. Fisher. 1983. The effect of Hoe 39866 OH SL19 A127 on Salmo gairdneri (Rainbow trout) in a static test. Performed by Hoechst AG, Frankfurt, FRG; submitted by American Hoechst Corp., Somerville, NJ; Registration No. 8340-EUP-RN; Accession No. 072967.

4. REVIEWED BY: John J. Bascietto  
Wildlife Biologist  
Ecological Effects Branch/HED

5. DATE REVIEWED: November 30, 1984

6. TEST TYPE: Freshwater Fish LC<sub>50</sub> (acute)

A. Rainbow trout, Salmo gairdneri

7. REPORTED RESULTS: 96 - hr LC<sub>50</sub>

Sg 296 LC<sub>50</sub> = 12.27 mg/l (7.6-21.6)

Sg 297 LC<sub>50</sub> = 14.86 mg/l (9.5-28.2)

8. REVIEWER'S CONCLUSIONS: The study is not scientifically sound, as reported. There are many substantial deviations from the acceptable guidelines which cause this study to be unacceptable to fulfill a guideline requirement. The results should not be used in hazard assessment.

Some unacceptable aspects:

- cannot validate the exposure
- test was aerated
- insufficient chemistry determinations
- insufficient identification of the toxicant tested

9. MATERIALS/METHODS:

Trout were obtained from laboratory hatchery and kept at 12±2°C. Mortality over 6 weeks was 0.1%. At time of test fish were 4 months old (mean length = 3.77 cm; mean weight = 0.77 g; n = 20).

Tests were conducted with two replicates, Sg 296 and Sg 297, 15 concentrations and a negative control were tested each replicate.

Test medium was "well aerated water mixture of 80% filtered drinking water and 20% deionized." Characteristics of water indicate it was EPA "very hard"; pH = 7.6.

Stock solutions were prepared by precision weighing of toxicant to 0.1 mg dissolved in water. Original material was a soluble concentrate 200 g/L.

Test chambers were each 50 L capacity stainless steel with 50 L test medium in each. Ten fish per vessel - random selection. Biological loading was 0.14 and 0.16 g/L. Temperature, D.O. and pH were determined at 0, 24, 48, 72 and 96 hours in the control tank. Test water was aerated with 100 ml air/minute during the entire test. Test water temperature lay between 15.4 and 15.7°C (S-296) 15.9 and 16.3 (Sg 297).

Statistical Analysis:

SAS computer program for probit analysis. LC<sub>50</sub>'s are "nominals".

10. RESULTS:

See tables.

11. REVIEWER'S EVALUATION

A. Test Procedure

Substantial deviations from acceptable guidelines are:

1. inadequate description of toxicant preparations.
2. no analytical chemistry (actual concentrations) determinations in each vessel (required as a result of #1. and #4).
3. 50 L tanks used.

4. aerated tests.
5. no indication of % active ingredient.
6. water chemistries determined only in controls instead of high, mid-, low concentrations.

**B. Statistical Analysis:**

Did not validate since cannot use results.

**C. Results:**

These results are of no use to EEB since there are many unacceptable deviations from our requirements and guidelines.

**D. Conclusions:**

1. Category: Invalid (both tests)
2. Rationale: Aerated tests with no analytical concentrations
3. Repair: - Provide analytical concentrations and water quality data for test chambers.  
- provide % a.i. in original toxicant material

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GLUFOSINATE

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Pages 4 through 11 are not included.

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