DATA EVALUATION RECORD

1. Chemical: Metalaxyl (Shaughnessy #113501)

2. Formulation: Ridomil Tech. (95.1% a.i.)


4. Reviewed by: James D. Felkel
   Wildlife Biologist
   Ecological Effects Branch, HED

5. Date Reviewed: 4/7/81

6. Test Type: 96-hr fish LC50

   A. Test Species: Rainbow trout
      (Salmo gairdneri)

7. Reported Results: 96-hr. LC50 is 132 ppm (95% confidence interval 103.05 - 169.08 ppm).

8. Reviewer's Conclusions: This study appears to be scientifically sound and to satisfy the guidelines for this test material and species. The above LC50 indicates that the active ingredient is "practically non-toxic" to rainbow trout.
Materials/Methods

The test material was described as a brown powder, sample #MB576. The trout were obtained from the Wytheville National Fish Hatchery. Acetone was used as a diluent. A control and five (5) concentrations (24, 40, 65, 108, and 180 ppm) were tested. Method #TSD 1.206 was followed. Ten fish were used per concentration. Fish had an average weight of 1.680 grams and the loading rate was 0.56 g/l.

Results

Mortality in the test concentrations at 96 hours is shown in the appended table (reviewer's analysis). There was no control mortality. A 96-hour LC50 of 132 ppm is reported.

Reviewer's Evaluation

Method's

Methods used were generally consistent with approved protocols.

Statistics

The appended table shows the results using Stephan's Program.

Results

The binomial test gives an approximate LC50 of 126.8 for the data provided, closely approximating the submitted value.

Conclusions

1. Category: Core
2. Rationale: N/A
3. Repairability: N/A
**Ridomil Tech vs. Rainbow Trout; CBIB Test #2414**

<table>
<thead>
<tr>
<th>CONC.</th>
<th>NUMBER</th>
<th>NUMBER</th>
<th>PERCENT</th>
<th>BINOMIAL PROB. (PERCENT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXPOSED</td>
<td>DEAD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>180</td>
<td>10</td>
<td>10</td>
<td>100</td>
<td>9.76563E-2</td>
</tr>
<tr>
<td>108</td>
<td>10</td>
<td>2</td>
<td>20.</td>
<td>5.46875</td>
</tr>
<tr>
<td>65</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>9.76563E-2</td>
</tr>
<tr>
<td>40</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>9.76563E-2</td>
</tr>
<tr>
<td>24</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>9.76563E-2</td>
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</tbody>
</table>

The binomial test shows that 65 and 180 can be used as statistically sound conservative 95 percent confidence limits since the actual confidence level associated with these limits is greater than 95 percent.

An approximate LC50 for this set of data is 126.838

When there are less than two concentrations at which the percent dead is between 0 and 100, neither the moving average nor the probit method can give any statistically sound results.
SAMPLE IDENTIFICATION

4. LOT OR CODE NO(S). None
5. EPA REGISTRATION NO. None
6. ESTABLISHMENT NO. None

7. PRODUCT NAME
Ridomil Tech

8. PRODUCER NAME AND ADDRESS (Include ZIP code)
Ciba-Geigy
Greensboro, North Carolina

9. DEALER NAME AND ADDRESS (Include ZIP code)

10. PHYSICAL FORM
<table>
<thead>
<tr>
<th>EMULS. CONC.</th>
<th>PRESS. SPRAY</th>
<th>DUST</th>
<th>GRANULAR</th>
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<tbody>
<tr>
<td>WET. POWDER</td>
<td>AEROSOL</td>
<td>BAIT</td>
<td>OTHER</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BROWN</td>
</tr>
</tbody>
</table>

11. INGREDIENTS
N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-alamine methyl ester

Technical Ridomil 95.1%

TEST

12. TYPE OF TEST
Static jar
Test #2414

13. TEST ORGANISM(S)
Rainbow trout (Salmo gairdneri)
Average weight: 1.680 gm.
Source: Wytheville National Fish Hatchery

14. METHOD NO. TSD 1.206
15. DURATION 96 hrs
16. CONCENTRATION 24-180 ppm
17. DILUENT Acetone

18. SUMMARY
Information based on total formulation
96 hr LC50 is 132 ppm (95% confidence interval 103.05 to 169.08 ppm)

19. RESULTS

<table>
<thead>
<tr>
<th>Time</th>
<th>Concentration in ppm (percent mortality given below)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>180</td>
</tr>
<tr>
<td>24 hr</td>
<td>100</td>
</tr>
<tr>
<td>48 hr</td>
<td>100</td>
</tr>
<tr>
<td>72 hr</td>
<td>100</td>
</tr>
<tr>
<td>96 hr</td>
<td>1.327</td>
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</tbody>
</table>

Ten fish per concentration.
Loading rate fish/water volume 0.56g/l

20. TESTER'S INITI. D. N
21. SIGNATURE OF LAB SUPERVISOR Brian D. Leon
22. LABORATORY Terrestrial & Aquatic Biology
23. DATE 7/24/79