

US EPA ARCHIVE DOCUMENT

111801

1. Chemical: Baquacil

2. Formulation: 20% a.i.

3. Citation: Sleight III, B.H. (1980) Daphnia Magna Exposure to Vantosil IB #1857, EPA Registration No. 10182-EUP-11, Product Name: Baquacil, Producer Name, ICI Americas, Inc. tested by EG&G Bionomico, Wareham, Mass. 02571

4. Reviewer: Curtis Laird
Fishery Biologist
EEB/HED

5. Date Reviewed Aug. 25, 1980

6. Test Type: Daphnia acute 48-hour LC50

7. Reported Results:

The 48-hour acute LC50 is 0.18 (0.12 to 0.30)

8. Reviewer's Conclusion:

The study is scientifically sound and indicates that Baquacil is highly toxic to Daphnia. The study does fulfill the requirements for an aquatic invertebrate acute 48-hour LC50.

Material/Methods

Test Procedures

The protocol generally followed the recommended EPA protocol of April 1975. For this study the concentration levels ranged from 0.24 to 0.75 ppm.

Statistical Analysis

Not given

Discussion/Results

The 48-hour LC50 value was 0.18 ppm.

Reviewer's Evaluation

A. Test Procedure

The test procedure complies with the recommended US EPA 1975 protocol.

B. Statistical Analysis

The 48-hour LC50 value was verified with Stephan's computer program. The probit method shows the LC50 value to be 0.219 ppm (0.178132 and 0.276273)

C. Conclusion:

1. Category: Core
2. Rationale: N/A
3. Repairability: N/A