

US EPA ARCHIVE DOCUMENT

9-13-90

**Data Evaluation Report
Ecological Effects Branch**

- 1. **Chemical:** Bromacil
- 2. **Test Material:** Purity not specified
- 3. **Study Type:** Multiple Chemical/Multiple Species 48 Hour Acute Testing with Aquatic Organisms
- 4. **Study Identification:**

Study Author: Yoshida, Koji and Yasuhiro Nishiuchi
Study Laboratory: Bureau of Agricultural Chemicals and Inspection Standards, Japan
Study Dates: 1972 (actual test dates not provided)
Study Identification: Title- "Toxicity of Pesticide to Some Water Organisms" Volume 12:122-128 (1972)
EPA Identification: MRID 126345

- 5. **Reviewed by:** Brian Montague, Fisheries Biologist
 Ecological Effects Branch
 Environmental Fate and Effects Division (H7507C)

Brian Montague
9/12/90

- 6. **Approved by:** Ray Matheny, Supervisory Biologist
 Ecological Effects Branch, Section I
 Environmental Fate and Effects Division (7507C)

Ray Matheny
9/13/90

7. **Conclusions:** These tests were not conducted under protocol guidelines acceptable by the Agency for use as studies in support of registration. Test periods were insufficient, test substance purity is not identified, and test species are not scientifically identified and in many cases were not acceptable test species.

8. **Recommendations:** N/A

invalid

1

9. **Submission Purpose:** The study was submitted with the reregistration data package.

10. **Methods and Materials:** Protocol followed "Methods of Toxicity Testing on Fish" specified under publication No.27351970 of the Ministry of Agriculture and Forestry for Japan.

Test Organisms: Carp, japanese goldfish, loach, killifish, tadpoles, mountain crab, crawfish, water fleas(adult ♀s) and pullets were tested.

Test Solutions: Preparation not described.

Test Materials: 500 ml Petri dishes or 10 liter glass aquaria were used as test vessels. Temperature of the water was maintained at 25°C for all organisms tested except for the tadpoles. Ten organisms with several replicates were used for each test substance.

11. **Test Results:** The following results pertain to Bromacil only.

Organism	Test Period	LC ₅₀
Carp(5 cm length)	48hr	10-40 ppm
Japanese Goldfish(4cm)	48hr	10-40 ppm
Killifish (2.5 cm)	48hr	10-40 ppm
Loach(10 cm)	48hr	45 ppm
tadpole(1 month old)	48hr	230 ppm
crawfish	72hr	>40 ppm
water flea(adult ♀)	3hr	>40 ppm

12. **Study Author's Conclusions:** None was presented with the report- only a summation of the test results.

13. **Reviewer's Discussion:** Though the tests cannot be considered valid for registration purposes, this study does offer some comparative toxicity ranges for Bromacil under short exposure to multiple groups of species.

Adequacy of Study:

Classification: Invalid for registration purposes

Rationale: Incomplete submission, unacceptable protocol, inappropriate species(not clearly identified).

Repairability: Not repairable

2