

US EPA ARCHIVE DOCUMENT

CASE GS0097 CHLOROTHALONIL PM 400 08/03/82

CHEM 081901 Chlorothalonil (tetrachloroisophthalon

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 06 - WETTABLE POWDER (WP OR W)

FICHE/MASTER ID 00087258 CONTENT CAT 01

McCann, J.A.; Pitcher, F. (1973) @Bravo TM W-75; Bluegill
(+~Lepomis macrochirus~): Test No. 548. (U.S. Environmental
Protection Agency, Pesticide Regulation Div., Agricultural
Research Center, Animal Biology Laboratory and Fish Toxicity
Laboratory; unpublished study; CDL:128550-A)

SUBST, CLASS = S.

DIRECT RVW TIME = (MH) START-DATE END DATE

REVIEWED BY: Daniel Rieder
TITLE: Wildlife Biologist
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SIGNATURE: *Daniel Rieder* DATE: 12/16/82

APPROVED BY:
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SIGNATURE: DATE:

000 87258

1. Chemical: Chlorothalonil
2. Sha. No.: 081901
3. Citation: McCann, J.A., Pitcher, F. (1973). Bravo® W.75: Bluegill (Lepomis macrochiras). Test No. 548. An unpublished report prepared by the U.S. EPA, Pesticide Regulation Div., Agricultural Research Center, Animal Biology Laboratory and Fish Toxicity Laboratory. Data Acc. No. 128550.
4. Date Reviewed: 10/25/82
5. Reviewed By: Daniel Rieder
Wildlife Biologist
6. Test Type: 96 hour LC50

Test Material: Bravo® W-75 (Formulated product)

Test Species: Bluegill

7. Results

96-hour for Bravo® W-75 = 0.167 ppm

8. Conclusion: This test is scientifically sound, ^{but does not} fulfill guideline requirements for acute toxicity test with a formulated product. It does show that Bravo® W-75 is highly toxic to fish.

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Methods

Twenty bluegill (35 to 75 mm in length) were tested at 6 concentrations (0.037, 0.056, 0.087, 0.14, 0.21, 0.32 ppm). The fish were divided and tested ten each in separate 15 liter containers. No control was reported. The test material was Bravo® W-75 formulated product which is 75% chlorothalomid. The test was conducted for 96 hours, but the raw mortality presented is for 24 hrs only.

Results

<u>Concentration (ppm)</u>	<u>24-Hour Mortality (Number tested/Number dead)</u>	
	<u>Test 1</u>	<u>Test 2</u>
0.037	10/0	10/0
0.056	10/0	10/0
0.087	10/0	10/0
0.14	10/0	10/1
0.21	10/4	10/10
0.32	10/10	10/10
	LC50 = 0.223 ppm	LC50 = 0.18 ppm

The following is the combined results in ppm:

<u>Test Period</u>	<u>LC10</u>	<u>LC50</u>	<u>LC90</u>
24 hr.	.16	.223	.31
48 hr.	.14	.18	.23
96 hr.	.127	.167	.22

Bravo® W-75 is highly toxic to fish.

Conclusion

Category: *Supplemental*

Rationale: The mortality data for 96-hours is not available.

Repairable: This test can be upgraded if the raw mortality is made available.