US EPA ARCHIVE DOCUMENT

11 3201
SHAUGHNESSEY NO.

10
REVIEW NO.

EEB BRANCH REVIEW

DATE: IN 10-28-80 OUT 12-10-80

FILE OR REG. NO. 7969-LG

PETITION OR EXP. PERMIT NO.

DATE DIV. RECEIVED 10-28-80

DATE OF SUBMISSION 9-30-80

DATE SUBMISSION ACCEPTED

TYPE PRODUCT(S): I, D, H, F, N, R, S Fungicide

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. E. Wilson (21)

PRODUCT NAME(S) Ronilan Fungicide

COMPANY NAME BASF Wyandotte Corporation

SUBMISSION PURPOSE Data to update bluegill LC_{50} study

SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION	% A.I.
113201	Vinclozolin	96.5%

Vinclozolin

(RONILAN)

107 Conclusions

107.4 Data Adequacy Conclusions

With the receipt of the percent active ingredient (96.5%) and the identification of the species used (pumpkinseed, Lepomis gibbosus), the warm-water fish 96-hr LC_{50} submitted by BASF Wyndotte in support of registration of vinclozolin (RONILAN) on strawberries is upgraded to Acceptable (see previous review by J.S.Leitzke, 7/10/80).

107.5 Data Requirements

EEB notes that BASF Wyndotte also agreed to the following conditions noted in the 7/10/80 review: an avian reproduction study, and withdrawal or denial of registrations on crops with residues at levels of reproductive impairment (if any).

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113201

DATA EVALUATION RECORD

1. CHEMICAL: Vinclozolin

2. FORMULATION: ? (96.5% - see 12/10/80 review)

3. CITATION: Gelbke, H.-P. 1980. Report on testing for acute toxicity. Prepared and Submitted by BASF. Acc. No. 242222.

4. REVIEWED BY: John S. Leitzke
Ecologist, Sect. #3
Ecological Effects Branch, HED

5. DATE REVIEWED: July 3, 1980

6. TEST TYPE: Fish Acute LC50

Test Species: ~~Bluegill (Lepomis macrochirus)~~ ~~or~~ (Lepomis gibbosus) Pumpkinseed (← see 12/10/80 review)

7. REPORTED RESULTS: 96-hr LC50 = 49.8 ppm at 22°C

8. REVIEWER's CONCLUSIONS:

In terms of total test material, the 96-hr LC50 is 49.8 ppm indicating only a slight toxicity to warmwater fish. In general the test was scientifically sound although sedimentation was noted in test levels above 2.15 ppm. However, this is not considered a serious problem, since the registrant has made a reasonable effort to get the test material into solution in this the second test using two solvents, acetone and "Cremophor RH 40" a castor oil-ethylene oxide adduct (glycerine polyethylene glycol oxystearate). Even so, this test is presently Unacceptable in meeting the Guidelines minimum data requirement for a warmwater fish 96-hr LC50 but upon receipt of % active ingredient in the test material and clarification of test species (i.e. is it the bluegill-Lepomis macrochirus - or pumpkinseed - Lepomis gibbosus?) can be upgraded for the strawberry registration at 1-2 lb AI/acre and for other registrations that will result in a warmwater aquatic environmental concentration less than 1/100,000th the warmwater fish 96-hr LC50.