264426;264423
RECORD NO.
022901
SHAUGHNESSY NO.

7/11/1990

REVIEW NO.

EEB REVIEW

DATE: IN 5-24-90 DATE: OUT ____

FILE OR REG. NO. 3222-18; 3222-6

PETITION OR EXP. NO. ____

DATE OF SUBMISSION 4-26-90

DATE RECEIVED BY EFED 5-18-90

RD REQUESTED COMPLETION DATE 6-22-90

EEB ESTIMATED COMPLETION DATE 6-22-90

RD ACTION CODE 405

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

DATA ACCESSION NO(S). 41461801

PRODUCT MANAGER (NO.) Joann Miller PM (23)

PRODUCT NAME(S) Crown Pear Wraps

COMPANY NAME James River Corporation

SUBMISSION PURPOSE Review 6(a)(2) data and effects on product labelling

SHAUGHNESSY NO.	CHEMICAL & FORMULATION(S)	% A.I.
022901	Copper Carbonate	____

100.0 Pesticide Name: Copper Carbonate

100.1 Submission Purpose:

Submission of a 96-hour fish study and the effect it will have on the product labelling.

101.0 Chemical and Physical Properties:

101.1 Common Name:

Crown Pear Wraps

103.0 Toxicological Properties:

96-hour LC_{50} for rainbow trout

105.0 Conclusions:

The toxicity category for rainbow trout was not established for copper carbonate due to a 100% mortality in both dose levels tested (100 and 1000 ppm). This study does not fulfill the requirement in support of registration for a coldwater fish species because the % a.i., period food was withheld, acclimation period in days were unknown, and the 96-hour LC_{50} value was not established.

EEB can not address the effects of this product on labelling due to lack of pertinent ecological effects data. In order for EEB to determine whether ecological effects labelling (e.g., 'This pesticide is toxic to fish') is appropriate, acute 48-hour, and 96-hour LC_{50} studies for aquatic organisms should be submitted for the technical grade of each active ingredient.

Curtis E. Laird 7-2-90
Curtis E. Laird, Fishery Biologist
Ecological effects Branch
Environmental Fate and Effects Division (H7507C)

Norman J. Cook 7.2.90
Norman J. Cook, Head-Section 2
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)

James W. Akerman 7/11/90
James W. Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)

DATA EVALUATION RECORD

1. CHEMICAL: Crown Pear Wraps

2. TEST MATERIAL: % a.i. unknown

3. TEST TYPD: 96-hour LC_{50}

Test Species: Rainbow Trout (Salmo gairdneri)

4. STUDY IDENTIFICATION: Vossen, Lonnie (1990) Washington DOE 80-12 Dangerous and Extremely Hazardous Waste Bioassay; Work Report No. 893252; Prepared by Columbia Analytical Service, Inc. for James River Corporation, 904 N.W. Drake, Camas, WA 98607.

5. REVIEWED BY:

Curtis E. Laird
Fishery Biologist
EEB/EFED

Signature: Curtis E. Laird
Date: 6-6-90

6. APPROVED BY:

Norman J. Cook
Supervisory Biologist
EEB/EFED

Signature: Norman J. Cook
Date: 6.22.90

7. CONCLUSIONS: The toxicity category for rainbow trout was not established for copper carbonate due to a 100% mortality in both dosage levels tested (100, and 1000 ppm). This study does not fulfill the requirement in support of registration for a coldwater fish study because the % a.i., period food was withheld, acclimation period in days were unknown, and the 96-hour LC_{50} value was not established.

8. RECOMMENDATIONS: The registrant should conduct another study using dosage levels lower enough to establish the 96-hour LC_{50} value. Also, the percent of the active ingredient (technical grade material) must be included in the bioassay report

9. BACKGROUND: This study was submitted in support of copper carbonate registration.

10. DISCUSSION of INDIVIDUAL TEST: N/A

11. MATERIAL TESTED:

A. Test Animals: Test animals were 2.5g rainbow trout from Hidden Valley Trout Ranch, Kelso, WA 98626.

B. TEST DESIGN: Fish were tested in a ten gallons glass aquaria with 20-32 liters of test solution; temperature was 12 ^{o}C.

C. DOSE: Ten fish per dose level; two dose levels plus control (0, 100, and 1000 ppm).

D. Statistical Analysis: No statistical method was given.

12. REPORTED RESULTS: The study author found 0% mortality in the control and 100% mortality in both the 100 and 1000 ppm concentration. The 96-hour LC_{50} was not established for rainbow trout.

13. STUDY AUTHOR'S CONCLUSION/QA MEASURES: The 96-hour LC_{50} was not established. No Quality Assurance Statement submitted.

14. REVIEWER'S DISCUSSION AND INTERPRETATION OF THE STUDY:

A. TEST PROCEDURE: The test procedure did not comply with the recommended EPA protocol of October 1982 because the % a.i., acclimation period in days, period food was withhehd were unknown, and the 96-hour LC_{50} value was not established.

B. STATISTICAL ANALYSIS: No statistis were performed due to 100% mortality in both dose levels.

C. DISCUSSION/RESULTS: The toxicity category for rainbow trout was not established in the 96-hour bioassay using copper carbonate.

D. ADEQUACY OF STUDY:

1. Category: Invalid
2. Rationale: See section 7 above
3. Reparable: Not reparable.

15. Completeion of one-liner for study: Yes

16. CBI Appendix: N/A