MRID No. 250-50067

DATA EVALUATION RECORD

- 1. <u>CHEMICAL</u>: Bayleton (Triadimefon). Shaughnessey Number: Not available.
- 2. TEST MATERIAL: Bay Meb 6447; 1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4 triazol-1-yl)-2-butanone; 93% purity; Bayer batch # 5030047; a white granular material with a distinct odor.
- 3. <u>STUDY TYPE</u>: Avian dietary LC₅₀ test. Species Tested: Mallard duck (<u>Anas platyrhynchos</u>).
- 4. <u>CITATION</u>: Fink, R. 1977. Final report, eight-day dietary LC₅₀ mallard duck. Study performed by Wildlife International Ltd., Easton, Maryland. Laboratory study # 149-106. Submitted by Chemagro Agricultural Division, Mobay Chemical Corporation (Address not given). MRID No. 250 000-50067.

5. REVIEWED BY:

Michael L. Whitten, M.S. Wildlife Toxicologist KBN Engineering and Applied Sciences, Inc.

6. APPROVED BY:

Pim Kosalwat, Ph.D. Senior Scientist KBN Engineering and Applied Sciences, Inc.

Henry T. Craven, M.S. Supervisor, EEB/HED USEPA

signature: Michael L. white

Date: 2-14-91 Deni / May 3-11-83

signature: P. Kosalwat

Date: 8/14/91

signature: Henry Con 4/13/43

. Date:

- 7. CONCLUSIONS: The study is scientifically sound but does not fulfill the requirements for an avian dietary LC₅₀ test. Under the conditions of this study, and based upon nominal concentrations, the dietary LC₅₀ of Bayleton was greater than 10,000 ppm, the highest concentration tested. This value classifies Bayleton as practically non-toxic to 14-day old mallard ducklings. The NOEC could not be determined, due to reductions in body weight gain and food consumption at all treatment concentrations.
- 8. RECOMMENDATIONS: N/A

9. BACKGROUND:

10. DISCUSSION OF INDIVIDUAL TESTS: N/A.

11. MATERIALS AND METHODS:

- A. <u>Test Animals</u>: The birds used in the study were 14-day old mallard ducklings (<u>Anas platyrhynchos</u>) hatched from eggs obtained from Wildlife International's own production flock.
- B. <u>Test System</u>: The pen facilities in which the birds were housed during the study, and the photoperiod to which the birds were exposed, were not described. The brooder temperature was maintained at 99.0°F.
- C. <u>Dosage</u>: 8-day dietary LC₅₀ test. Nominal concentrations were 464, 1000, 2150, 4640, and 10,000 parts per million (ppm). "For the purposes of diet preparation, the experimental material was assumed to be 100 percent active material."
- Design: Groups of ten birds were randomly assigned, without regard to sex, to each of five control groups, five laboratory standard (dieldrin) groups, and five treatment groups. All birds were fed a commercial game bird starter ration. Food and water were supplied ad libitum throughout the test.

The test substance and dieldrin were dissolved in corn oil and added to the basal feed. The concentration of the solutions in the treatment and dieldrin diets was 2% (by weight). The birds were fed the appropriate dietary concentrations for five days, and then given untreated food for three days. The control birds received the basal diet throughout the study.

Birds were weighed by pen at initiation and termination of the study. Food consumption was recorded by pen during the five-day exposure period. Mortality and symptoms of toxicity were recorded daily throughout the study.

E. <u>Statistics</u>: Mortality in the dieldrin group was analyzed by the probit method of Litchfield and Wilcoxon. Due to the absence of mortality in all treatment groups, the LC₅₀ was not calculated.

12. <u>REPORTED RESULTS</u>: There was no mortality in the control groups, and the birds appeared normal throughout the study.

There was no mortality in any of the Bayleton treatment groups. The birds in the Bayleton treatment groups showed no symptoms of toxicity during the test period. There was a reduction in food consumption and body weight gain at 10,000 ppm (Table 1, attached).

The report provided results on mortality and symptoms of toxicity in the dieldrin group.

The author presented no conclusions, but included the following statement as a summary: "The acute LC₅₀ of Bayleton Technical in the Mallard duck is estimated to be greater than 10,000 ppm."

The report included no statements regarding quality assurance. One quality assurance measure was the inclusion of a laboratory standard treatment, commonly known as a positive, or reference control.

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

A. <u>Test Procedure:</u> This study was conducted in 1977, before the current SEP, ASTM, and Subdivision E Guidelines were published. However, the test procedures were in accordance with current guidelines except for the following deviations:

The birds were 14 days of age at initiation of the study; the recommended age is 5 to 10 days.

The average ambient relative humidity was not reported.

A full description of the test facilities (construction material, dimensions) was not reported.

The photoperiod was not reported.

The concentration of test substance in the diet was not confirmed by chemical analysis. This is recommended, but not required.

The vehicle (corn oil) was not added to untreated diets. The control birds received only the basal diet throughout the study.

considered in any risk assessment of this chemical. Altered growth or development of birds caused by exposure to these concentrations in the wild might result in reduced survival rates.

The study is scientifically sound, but does not meet the requirements for an avian dietary LC₅₀ test, since the birds were older (and potentially more resistant to the test chemical) than the recommended age. Younger birds might have responded differently, particularly in view of the reduced body weight gain and food consumption seen at all treatment levels.

D. Adequacy of the Study:

9

- (1) Classification: Supplemental.
- (2) Rationale: The birds were older than the recommended age.
- (3) Repairability: No.
- 15. COMPLETION OF ONE-LINER: Yes; February 6, 1991.

RIN 5710-93

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i haughnessay No. Not a vailable	Chemical Name Bayleton Chemical Class Page of
Study/Species/Lab/ Chemical	(Triadimeton) Results Date Status
Accession & al. 14-Day Single Dose Oral LD50	1050 = mg/kg () Contr. Hort. (*)=
Species	Slope= # Animals/Lavel= Age(Days)=
Lab	[4-Day Dose Level mg/kg/(x Hortality)
Acc.	Connectors
14-Day Single Dose Oral LD ₅₀	95N C.L.
	And formal to
Species	Slope # Animals/Level # Agentasts Sex =
Lab	(), (), (),
Acc.	Connects:
3-Day Dietary LC ₅₀	10,000 pp (N/A) Contr. Nort. (x) = 0 Supplementa
(Anas platyrhynches) 93%	Slope N/A * Animals/Level= 10 Age(Days)= 14 Sex = unknown M.Whitten
Lab wildlife International	464 (6), 1000 (0), 2150 (0), 4640 (0), 1000 (0)
ACC. MAID \$25.50067	* Naminal request bedy weight gain + food consemption at all concentration
8-Day Dietary LC ₅₀	LCS0 = ppm () Contr. Hott.(%)=
Species	Slope= # Animals/Level= Age(Days)= Sex =
Lab	8-Day Dose Level pon/(Mortality)
Acc.	Coments:
48-Hour LC ₅₀	95X C.L.
Species	Contr. Mort.(%)= Sol. Contr. Mort.(%)= Slope= # Animals/Level= ;
Lab	Slopes # Animals/Level. Temperature = 48-Hour Dase Level pp /(XHortality)
Acc.	
96-Hour LC ₅₀	Comments:
	LCS0 = PP_ () Con. Mor.(X)=
Species	Slope # Animals/Level= Temp.=
Lab	96-Hour Dose Level pp /(Thortality)
Acc.	Comments:
96-Hour LC50	1C50 = PO
Species	Slope + Animals/Level= Temp.=
Lab	96-Hour Dose Level pp /(Mortality)
Acc.	Contentts:
•	Sw 6