DATA EVALUATION RECORD

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DATE:

BENEFIN GS0058 CASE: 71-1 GUIDELINES: 121-1 81-3 Accession No. 234214; Prepared by H. C. West, J. L. Hamelink, W. D. Braddle, D. R. Brannon and D. L. Hamelink, W. D. Braddle, D. R. Brannon and D. M. Morton, Toxicology Division, Lilly Research Laboratories, Study No. 7011-77; Dated: June 8-16, 77; Title: The Toxicity of Compound 54521 (Benefin) in Mallards (Anas platyrhynchos) Eight Day Dietary Study; Submitted by Elanco Products Co., A Division of Eli Lilly & Company, Indianapolis, Indiana 46206 Indianapolis, Indiana 46206. REVIEW RESULTS: INVALID____ INCOMPLETE__ PARTIALLY SATISFIED _____ NOT SATISFIED_ START DATE: 7-6-88 END DATE: フー6ー&& DIRECT RVW TIME = / House Charles Lewis REVIEWED BY: Agronomist EEB/HED TITLE: ORG: CMII. ,557-7463 LOC/TEL: APPROVED BY: TITLE: ORG:

LOC/TEL:

SIGNATURE:

VALIDATION SHEET

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FÖRMULATION: CHEMICAL NAME: VALIDATOR: DATE:

% a.i. N-butyl-N-ethyl-a, D. J. Urban 7/29/78

• a,a trifluoro-2,6
96.4% dinitro-p-toluidine TEST TYPE:

Avian Subacute Dietary LC50

Compound 54521 Mallard Duck (Anas platyrhynchos).

TEST IL #: ES-El

CITATION: Accession No. 234214; Prepared by H. C. West, J. L. Hamelink, W. D. Braddle, D. R. Brannon and D. M. Morton, Toxicology Division, Lilly Research Laboratories, Study No. 7011-7; Dated: June 8-16, 77; Title: The Toxicity of Compound 54521 (Benefin) in Mallards (Anas platyrhynchos) Eight Day Dietary Study; Submitted by Elanco Products Co., A Division of Eli Lilly & Company,

Indianapolis, Indiana 46206.

VALIDATION CATEGORY: Core

- RESULTS: 1. There were no mortalities at 1000 ppm, 2500 ppm and 5000 ppm nominal dietary concentrations of Benefin. The measured concentrations, by assay, were 770 ppm, 2100 ppm, and 4550 ppm, respectively.
 - 2. Body weight gain was slightly depressed at the 5000 ppm dietary concentration, but compared to the controls, this depression was not significant at the 0.05 level.
 - 3. There was no difference in benavior, appearance and posture between treated and untreated birds.
 - 4. The reported no-effect level was 2500 ppm Benefin in the diet; however, this reviewer suggests 2500 ppm as the more appropriate no-effect level.

VALIDATION CATEGORY RATIONALE: All requirements (standards and protocols) were met for this test to be classified "core".

CATEGORY REPAIRABILITY/RATIONALE: N.A.

ADDITIONAL INFORMATION:

TEST: 8-day Acute Dietary LC50

PROTOCOL: Similar to EPA Proposed Guidelines in Fed. Reg. July 10, 1978, Part II.

SPECIES: Mallard Duck (Anas platyrhynchos)

AGE & SEX: 13 days old at the start of the test. No attempt was made to separate the birds by sex.

INITIAL WEIGHT: 203.2 + 6.7 g (mean + S.E.)

PEN FACILITIES: The eight cages of birds were randomly assigned positions on two cage macks.

TEST DIETS: Prepared in 2.5 kg lots by placing the appropriate amount of compound 34521 in a basic mash diet AN12CK412T25. Water was available to all groups ad libitum.

CONCENTRATIONS & DOSAGE MORTALITY: Replicate groups of birds were given diets containing 0.0%, 0.1%, 0.25%, or 0.5% w/w of the compound. There were no mortalities at any test level.

OBSERVATIONS ON SIGNS OF INTOXICATION: Behavior, appearance, food consumption and weight gain were not affected by treatment.

FOOD CONSUMPTION:

Diet Conc. %	Number of Birds	Total Food Consumption, g	
		Days 1-5-	Days 6-8
0.00	10	2214	2368
0.10	10	1773	2409
0.25	10	1812	2427
0.50	10	1973	2427

WEIGHT GAIN:

Total Body Weight,g		ight,g	Individual Weight Gain, g	Dunnett's t-Value For
Day∙ 0	Day 5	Day 8	(Mean + S.D.)	Weight Gain
1990	2728	3767	177.70 + 44.23	
1978	2463	3565	158.70 ± 27.71	-1.22
1893	2451	3420	152.70 <u>+</u> 21.26	-1.61
2268	2706	3671	140.30 ± 45.77	-2.41

STATISTICAL DESIGN: Random placement of birds into 8 groups of 5 birds each.

STATISTICAL PROCEDURE FOR HANDLING DATA: Dunnett, C. W., 1964. New Tables for Multiple Comparisons with a Control Biometrics 20:482-491.