EEB BRANCH REVIEW

DATI	E: IN <u>2/1/8</u>	4 OUT 5/14/84	
FILE OR REG. NO		1471-70	
PETITION OR EXP. PER	MIT NO.	Na na katalan na nakata na na na nakata na	
DATE OF SUBMISSION		11/3/83	eranjan, sa, isa masi ayi aya ana angin na angang na angang na angang na
DATE RECEIVED BY HED		2/3/84	and the state of the
RD REQUESTED COMPLET	ION DATE	5/23/84	entre en en est per entre en
EEB ESTIMATED COMPLET	TION DATE	5/16/84	
RD ACTION CODE/TYPE	OF REVIEW	400/Data	
		andayada nakeya yang ang ang ang ang ang ang mang mang ma	anne en
TYPE PRODUCT(S): I,	D, H, F, N, R,	S <u>Herbicide</u>	
DATA ACCESSION NO(S)	•		
PRODUCT MANAGER NO.		R. Mountfort (23)	-
PRODUCT NAME(S)	•	Treflan	and the state of t
COMPANY NAME		Elanco Products Company	
SUBMISSION PURPOSE		Submission of data to s	upport PR-Notice
-	83-	4 & 4A	and the second s
-			
SHAUGHNESSEY NO.	CHEMI	CAL, & FORMULATION	% A.I.
036101	Trifluralin	and the second seco	
			anakan kangkhasin menganyang menjadi penganyan dan penganyan bahan kangkan dan berakan dan berakan berakan ber
		and the second	

Pesticide Name: Trifluralin

100 Submission Purpose and Label Information

The registrant is submitting data required under PR-Notice 83-4 & 4A to support product registration.

101.4 Adequacy of Toxicity Data

Two avian dietary toxicity studies, one on bobwhite quail and one on mallard ducks, were reviewed under this submission. Both studies were found to be acceptable to support the registration of Treflan products. With eight-day LC $_{50}$ values greater than 5000 ppm, technical Trifluralin can be characterized as practically non-toxic to upland gamebirds and waterfowl in dietary exposures.

5-16-84

Les Touart

Fisheries Biologist

Section 4

5/16/84

Harry T. Craven

Head

Section 4

Clayton Bushong

Chief

DATA EVALUATION RECORD

- 1. CHEMICAL: Trifluralin
- 2. FORMULATION: 99.96% a.i.
- 3. <u>CITATION</u>: Emmerson, J.L. and C.C. Kehr (1983) The Toxicity of Trifluralin (Compound 36352) to mallards in a five-day dietary study. Study 7018-77. Unpublished report prepared by Lilly Research Laboratories for Elanco. [Acc. No. 252283]
- 4. <u>REVIEWED BY:</u> Les Touart Fisheries Biologist EEB/HED
- 5. DATE REVIEWED: 5/11/83
- 6. TEST TYPE: Avian dietary toxicity study (waterfowl)
 - A. TEST SPECIES: Mallard duck
- 7. REPORTED RESULTS: Based on the parameters evaluated in this study the eight-day LC50 value for Trifluralin was greater than 0.5%, the highest level tested.
- 8. REVIEWERS CONCLUSION: The study is scientifically sound and fulfills the guidelines requirement for an acceptable avian dietary toxicity study. With an $LC_{50} > 5000$ ppm, Trifluralin can be characterized as practically non-toxic to waterfowl.

Material/Methods Test Procedure

The test methods are consistent with current EPA Guidelines for conducting an avian dietary toxicity study. Specifically: Age at initiation of study - 14 days; Levels - 0.2 and 0.5% with controls; Number tested - 10/level; Environmental conditions - ambient room temperature, 12 hr light photoperiod.

Statistical Analysis

N/A

Discussion/Results

No mortality or signs of toxicity occurred in the control group or in any group that received the Trifluralin treated diets. The eight-day $\rm LC_{50} > 0.5\%$ Trifluralin treated diet. Food consumption was unaffected by treatment.

Reviewer's Evalution

A. Test Procedure

The methods used were acceptable.

B. Statistical Analysis

N/A

C. Discussion/Results

The data support the conclusions drawn.

D. Conclusions

- 1. Category: Core
- 2. Rationale: N/A
- 3. Repairability: N/A

DATA EVALUATION RECORD

- 1. CHEMICAL: Trifluralin
- 2. FORMULATION: 99.96% a.i.
- 3. <u>CITATION</u>: Emmerson, J.L. and C.C Kehr. (1983) The toxicity of Trifluralin (Compound 36352) to bobwhite in a five-day dietary study. Study 70016-77. Unpublished report prepared by Lilly Research Laboratories for Elanco. [Acc. No. 252283]
- 4. REVIEWED BY: Les Touart Fisheries Biologist EEB/HED
- 5. DATE REVIEWED: 5/11/83
- 6. TEST TYPE: Avian dietary toxicity study (Upland gamebird)
 - A. TEST SPECIES: Bobwhite quail
- 7. REPORTED RESULTS: Based on the parameters evaluated in this study the eight-day LC₅₀ value for Trifluralin was greater than 0.5%, the highest level tested.
- 8. REVIEWERS CONCLUSIONS: The study is scientifically sound and fulfills the guidelines requirement for an acceptable avian dietary toxicity study. With an LC50 > 5000 ppm, Trifluralin can be characterized as practically non-toxic to upland gamebirds.

Materials/Methods Test Procedure

The test methods are consistent with current EPA Guidelines for conducting an avian dietary toxicity study specifically: Age at initiation of study - 12 days; Levels - 0.2 and 0.5% with controls Number tested - 10/level; Environmental conditions - 12 hr light photoperiod.

Statistical Analysis

N/A

Discussion/Results

No mortality occured in the control group or in any group that received the Trifluralin treated diets. Treatment related diarrhea was seen in one replicate from the 0.5% group on test-days six thru eight. The eight-day $\rm IC_{50} > 0.5$ % Trifluralin treated diet. Food consumption was unaffected by treatment.

Reviewer's Evaluation

A. Test Procedure

The methods used were acceptable.

B. Statistical Analysis

N/A

C. Discussion/Results

The data support the conclusions drawn.

- D. Conclusions
 - 1. Category: Core
 - 2. Rationale: N/A
 - 3. Repairability: N/A