

EEE RESEARCH REVIEW

DATE: IN _____ OUT _____ IN _____ OUT _____ IN 3-18 OUT 6-9-77
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 2596-62, (63)
PETITION OR EXP. PERMIT NO. _____
DATE DIV. RECEIVED 3-11-77
DATE OF SUBMISSION 3-11-77
DATE SUBMISSION ACCEPTED _____
TYPE PRODUCT(S): (I), D, H, F, N, R, S _____
PRODUCT MGR. NO. 15
PRODUCT NAME(S) Hartz 2 in 1 Collars - Dogs, Cats
COMPANY NAME Hartz Mountain
SUBMISSION PURPOSE Extend label claims to 5 months.
CHEMICAL & FORMULATION Rabon, 13.7%

200.0 Introduction

This is a 2(b) submission for amended registration.

200.1 Uses. See Label

To extend the existing 4 month label claims to 5 months.

201.0 Data Summary.

1. ACN 225450, ACN 223246. These data have already been reviewed. See our reviews of 6-9-76 and 4-30-76.

2. An addition to the SRI cat test is submitted, indicating efficacy against fleas for 140 days.

202.0 Conclusions

1. Only 1 test (Turlock) indicates that the collar would be effective for the proposed label extension. This test represents only 6 dogs.
2. The SRI test (15 cats) indicates good activity for fleas on cats for 140 days.
3. The ECI test on dogs indicates control for only 3 months.
4. The other tests are inconclusive for periods greater than 4 months as the control populations exhibit fluctuation.

202.2.1 Data Insufficient

1. There is insufficient data at ≥ 150 days to support the proposed 5 month claims. Additional data are necessary to confirm the findings of the Turlock experiments.

Phil Hutton, Entomologist
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200.0

Introduction

This is a review of a new 14% Rabon Cat Collar. The previously registered rabon collars were only 10% active ingredient.

200.1

Uses - See Label

Flea and Tick Claims are for 4 months efficacy. This is an extension of 1 month for the flea claims and 2 months for tick claims. The claims for activity after wetting are similar.

201.0

Data Summary

See the submission for 2596-RE.

A. FLEA DATA SUMMARY - DOGS

STUDY	SITE	DOGS/REP	DAYS CONTROL	COMMENT
Gower	FL	12	??? 90 ???	Not averaged, Controls too erratic
Turlock	CA	6	155	Good population
Sharp	TX	12	105 -- 133	Low control pop.
Mounce	PA	12	126	Controls break
Eci	VA	10	85 -- 92	Definite limit & break
TOTAL ANIMALS:		52	118 -- 127($\bar{x}$)	

B. 1. BROWN DOG TICK DATA SUMMARY

STUDY	SITE	DOGS/REP	DAYS CONTROL	COMMENT
Gower	FL	12	50	High pop., = Zodiac
Turlock	CA	6	155	
Sharp	TX	12	70 -- 98	Pop. Break $\geq$ Zodiac
Mounce	PA	12	119	
Eci	VA	10	82 -- 105	= Zodiac
TOTAL ANIMALS:		52		
$\bar{x}$ DAYS OF CONTROL:			107 -- 119	

B. 2. Efficacy Delay - Days

Eci	8
Sharp	2-3
Turlock	N.R.
Gower	7-14
Mounce	2-4
x	5-7

Re 4/30/76

8

C.

1. Cat Flea Data

Only one test submitted for fleas on cats. 100% control of a good infestation (40-50/cat) achieved through 11 weeks. 95% control of an even higher (50-60/cat) infestation pressure achieved through 17 weeks. Good flea activity still evident at 20 weeks collar age. 15 cats in each group. The 13.7% Rabon collar was > to the Zodiac collar registered for 5 month flea control for 17-20 weeks.

2. Cat Tick Data

At weeks 3 and 7, cats were challenged with 75 brown dog ticks. Apparently many were killed, but it appears that cats quickly learned to groom themselves and remove attached ticks.

D. Other Data

Additional data was submitted on wetness claims and on the Rocky Mountain Spotted Fever Tick, D. Andersoni. The wetness data indicate that this kind (10%) of rabon collar blooms equally well during and after immersion in water.

202.2

Label claims for 4 month control are acceptable. The label must bear a statement, however, that informs the user that efficacy may not be apparent for ticks for several days after collar attachment.

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6