

US EPA ARCHIVE DOCUMENT

4-3-76

EEE BRANCH REVIEW

DATE: IN \_\_\_\_\_ OUT \_\_\_\_\_ IN \_\_\_\_\_ OUT \_\_\_\_\_ IN 3-3 OUT 4-30

FISH & WILDLIFE

ENVIRONMENTAL CHEMISTRY

EFFICACY

FILE OR REG. NO. 2596-AG

PETITION OR EXP. PERMIT NO. \_\_\_\_\_

DATE DIV. RECEIVED 2-20-76

DATE OF SUBMISSION \_\_\_\_\_

DATE SUBMISSION ACCEPTED \_\_\_\_\_

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

PRODUCT MGR. NO. 15

PRODUCT NAME(S) Hartz 2 in 1 Tick & Flea Collar for Cats

COMPANY NAME Hartz Mountain

SUBMISSION PURPOSE New

CHEMICAL & FORMULATION Rahon 13.7%

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
Ecf	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	
Ecf	VA	10	82 -- 105	= Zodiac

TOTAL ANIMALS: 52

$\bar{x}$  DAYS OF CONTROL: 107 -- 119

## B. 2. Efficacy Delay - Days

Ecf	8
Sharp	2-3
Turlock	N.R.
Gower	7-14
Mounce	2-4
$\bar{x}$	5-7

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.

Phil Hutton, Entomologist  
Efficacy Section, EEEB

WSW  
