

US EPA ARCHIVE DOCUMENT

INITIAL DATE

9-19-85 9-24-85  
DET: D - 05

FILE OF REC. NO. 4758-BLR

INITIATOR OF REC. NUMBER

DET IN. REC'D. 9-5-85

DET OF SUBMISSION 9-4-85

DET SUBMISSION NUMBER

(ITEM NUMBER(S): (1) I. I. S. T. S. S.)

DET APPROVAL NO(S).

PRODUCTS REC. NO. 16

Hill's Holiday Flea Stop Pump Spray for Dogs and Cats

PRODUCT NAME(S) Holiday Flea Stop Pump Spray

MANUFACTURER Pet Chemicals, Inc.

DESCRIPTION NUMBER Fleaspray for pets and Pet bedding

CHEMICAL & FORMULATION Linalool 0.92%

Piperonyl Butoxide 0.50%

Propylene Glycol 10.00%

Inert Ingredients 88.57%

CONCLUSIONS & RECOMMENDATIONS

INVESTIGATE

9-19-85... 9-24-85  
DPI: D - OT

FILE OF REC. NO. 4758-RLG

MISSION OF DR. RICHARD

DPI DR. RICHARD 9-5-85

DATE OF SUBMISSION 9-4-85

DATE SUBMISSION RECEIVED /

TEST RECORD(S): (2) I. E. J. T. S. S.

DATE RECEIVED BY DR.

PRODUCT NO. 16

PRODUCT NAME(S) Holiday Non-Aerosol Flea Spray

MANUFACTURER Pet chemicals, Inc.

DESCRIPTION PURPOSE Flea spray for pets and pet bedding

CHEMICAL & FORMULATION	<u><math>\alpha</math>-Limonene</u>	<u>0.920</u>
	<u>Linalool</u>	<u>0.925</u>
	<u>Piperonyl butoxide</u>	<u>0.500</u>
	<u>Propylene glycol</u>	<u>10.000</u>
	<u>Castor Ingekwees</u>	<u>87.685</u>

CONCLUSIONS & RECOMMENDATIONS

Introduction - Refer to reviews of 6-18-85 and 8-23-85 of 4758-RLR for background information. The review of 8-23-85 indicated that there were sufficient data to substantiate claims for control of egg, larval, and adult flea stages, but that additional data for pupae were needed. The current submission contains additional data for activity against all flea stages and data for the subject formulation.

Data Summary - The submitted data consist of a test report from Ohio State University. All flea stages were tested on 3" x 3" carpet squares by applying 10 CF of spray / square. A total of 4 replicates were tested. For each stage there were 50 eggs, larvae, pupae and adults / replicate. Results are summarized below.

Formulation	Eggs % adults emerging over 49 days	Larvae % adults emerging over 42 days	Pupae % adults emerging over 32 days	Adults: % mortality at 24 hrs.
Subject Formulation	0	0	0	100
10% propylene glycol				
[REDACTED]	0	0	0	100
PPG 020 11	0	0	0	100
Control (water)	59	41	39	0
(1) Linalool — 1.00%				
Piperonyl Butoxide — 0.50%				
Propylene glycol — 10.00%				

There were no developing adults from the treated eggs, larvae and pupae for the subject formulation and for 10% propylene glycol [REDACTED]

The investigator states "In the egg tests, all treatments were lethal to eggs since we could find no larvae". It should be noted that in the <sup>letter</sup> ~~report~~ submitted on 8-7 indicates that examination of flea eggs treated with the <sup>Linatop</sup> ~~subject formulation~~ it was indicated that microscopic examination showed that hatching was prevented.

Data for adults indicated 100% control for the subject formulation and for 10% propylene glycol [REDACTED]

Conclusions. The test results for eggs, larvae and adults confirm earlier findings.

The test results for pupae demonstrate that both the subject formulation and 10% propylene glycol + <sup>as well as formulation PA 020</sup> [REDACTED] are effective against flea pupae. Label claims for control of flea pupae would be acceptable.

The front panel label statement "For ~~dogs~~  
~~cats~~ and ~~other~~  
pets and their bedding" should clearly state  
that this is use as a Contact spray.

The back panel label claim that use of  
the product will result in a more complete 4

(3)

Treatment is not acceptable. There are other insecticides which will kill pre-adult fleas.

The back panel label claim that "one treatment protects your pet and pet's bedding from flea buildup, your pets and family from irritating bites" should be modified to claim killing fleas on pets and on pet's bedding when applied as a contact spray. "One treatment" implies residual activity

R. S. Van Denburgh 9-24-85