US ERA ARCHIVE DOCUMENT

· .	Shaughnessy No.: 128897
·	Date Out of EFGWB: APR - 2 1990
TO: <u>G. LaRocca</u> Product Manager <u># 15</u>	
Registration Division	(H7505C)
FROM:	×4
Paul Mastradone, Section	on Chief A
Environmental Chemistry	
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Henry Jacoby, Chief K Environmental Fate and	
Environmental Fate and	Groundwater Division (H7507C)
Attached please find the EFG	EWB review of
Accord prease lind the Ero	Mp leview Of:
Reg./File # : <u>59-EGE</u> , <u>9F3</u>	770
Chemical Name: PP321 (Lambda	acyhalothrin)
Product Type : <u>Insecticide</u>	
Product Name : Saber Pour-or	<u>Insecticide</u>
Company Name : Coopers Anima	al Health Inc.
Purpose : New Pesticide	Product Registration
Date Received: 6/23/89	Action Code: 181, 230
Date Completed: 3/21/90	EFGWB No. 90661-662
Total Review	ring Time (decimal days): 2.5
	21.5 12.10 (doc1.101 dd/5). <u>2.5</u>
Deferrals to: Ecologi	cal Effects Branch, EFED
Science	Integration & Policy Staff, EFED
Non-Die	tary Exposure Branch, HED
	Exposure Branch ogy Branch, HED

1.0 CHEMICAL:

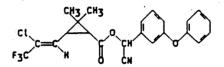
Common name: Lambdacyhalothrin

Chemical name: [1 alpha-(S),3 alpha (Z)]-(±)cyano-(3-phenoxyphenyl) methyl 3-(2chloro-3,3,3-trifluoro-1-propenyl)-2,2dimethylcyclopropanecarboxylate

Trade Name: Saber Pour-on Insecticide

Chemical Structure:

CYHALOTHRIN OF LAMBDACYHALOTHRIN



2.0 TEST MATERIAL:

No material submitted

3.0 STUDY/ACTION TYPE:

- 1. Permanent tolerance petition with respect to lambdacyhalothrin and Saber Pour-on Insecticide which contains lambdacyhalothrin.
- 2.Application for New Pesticide Product Registration for Saber Pour-on Insecticide on beef and non-lactating dairy cattle.

4.0 STUDY IDENTIFICATION:

Petition from Coopers Animal Health Inc. for Permanent Tolerance for Lambdacyhalothrin to Support Product Registrations Allowing for Use on Cattle.

5.0 REVIEWED BY:

George Tompkins Entomologist, Review Section 1 EFGWB/EFED Signature: Lerge Tangli Date: ADD - 2

6.0 APPROVED BY:

Paul Mastradone Section Chief, Review Section 1 EFGWB/EFED Signature: Oul Mastrador
Date:

APR - 2 1990

7.0 CONCLUSIONS:

Under 40 CFR 158, the use of cyhalothrin for ear tags for beef cattle and non-lactating dairy cattle for control of hornflies and lice is considered to be indoor general use pattern for which there is no environmental fate data requirements. Data requirements for the registration of PP321 on cotton that have been previously submitted have been considered in the past to be sufficient to define the fate of PP321 in the environment regarding the concerns of groundwater.

The establishment of tolerances is to be deferred to HED.

8.0 RECOMMENDATIONS:

No environmental fate data are required for the indoor use of this product.

Recommend that the request for establishment of tolerances in cattle be sent to HED.

9.0 BACKGROUND:

Coopers Animal Health, Inc. has submitted a registration application for products containing the active ingredient lambdacyhalothrin (PP321) or [1 alpha-(S),3 alpha (Z)]-(\pm)-cyano-(3-phenoxyphenyl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate, for use on beef cattle and non-lactating dairy cattle to control hornflies and lice.

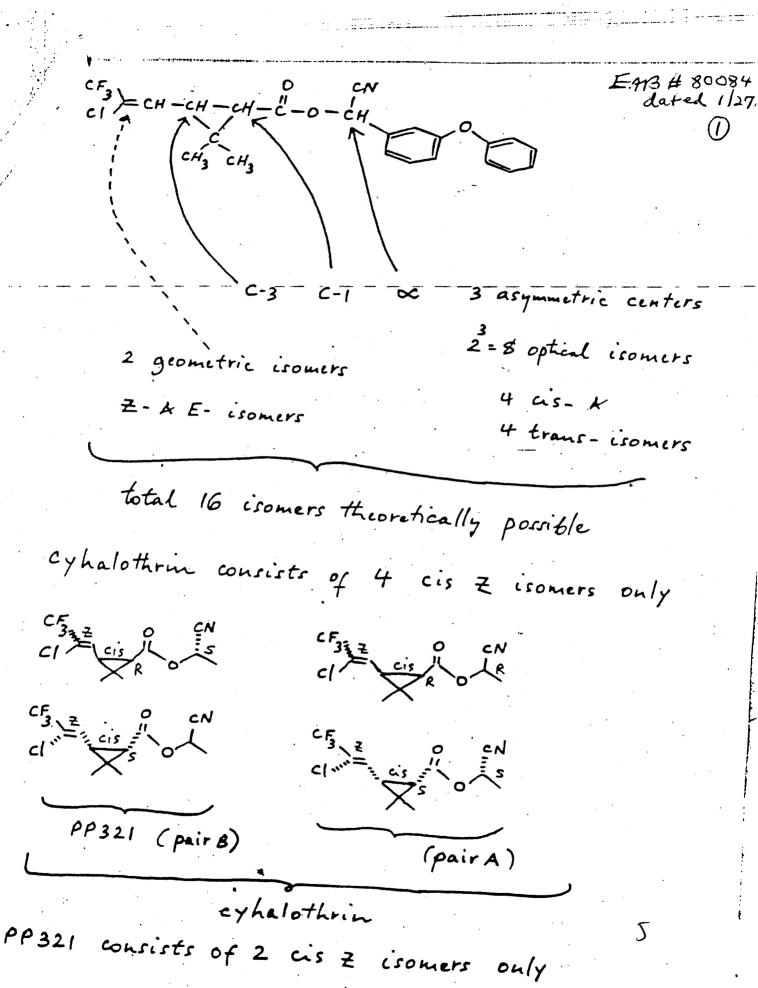
Registration data on the active ingredient are owned by ICI Americas Inc. and EPA Reg. No. 10182-96 KARATE Insecticide and EPA Reg. No. 10182-131 for PP321 Technical Insecticide have been granted. ICI has authorized EPA to utilize all data on the active ingredient contained or referenced in ICI's registration files for KARATE Insecticide and PP321 Technical Insecticide to support registration of the following products and use patterns:

SABER POUR-ON INSECTICIDE - 1% lambdacyhalothrin SABER II INSECTICIDE EAR TAG - 10% lambdacyhalothrin SABER PLUS INSECTICIDE EAR TAG - 10% lambdacyhalothrin SABER EXTRA INSECTICIDE EAR TAG - 10% lambdacyhalothrin

- 10.0 <u>DISCUSSION OF INDIVIDUAL STUDIES:</u> N/A
- 11.0 COMPLETION OF ONE-LINER: N/A
- 12.0 CBI APPENDIX: N/A

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Ici pyrethroid esters

cypermethrin

cyhalothrin (* P£ 321)

NOTE Common alcohol

3-phenoxybenjal cyanhydrin

FIGURE 1 : Position of Radiolabelling in 140-99321 Samples

- (a) position of radiolabelling in 14C-cyclopropane labelled PP321
- (b) position of radiolabelling in 1°C-[U]-phonyl labelled PP321

ester cleavage

cyclopropane earboxylic acid

Hood

3-phenoxybenzoic acid

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