

US EPA ARCHIVE DOCUMENT

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FEB 11 1980

To: Product Manager 17
TS-767

Through: Dr. Gunter Zweig, Chief /SI
Environmental Fate Branch

From: Review Section No. 1
Environmental Fate Branch *RWCook*

Attached please find the environmental fate review of:

Reg./File No.: 10182-18

Chemical: Permethrin: (3-phenoxyphenyl) methyl (+)-cis,trans-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropane carboxylate

Type Product: Insecticide

Product Name: Ambush

Company Name: ICI Americas, Inc.

Submission Purpose: Add use on potatoes
Add use on alfalfa

EFB #352 Action Code 220

EFB #353 Action Code 220

ZBB Code: Sec. 3

Date in: 01/10/80

Date Completed: FEB 11 1980

Deferrals To:

- Ecological Effects Branch
- Residue Chemistry Branch
- Toxicology Branch

1. Introduction

This review addresses two applications for amendment of the insecticide AMBUSH® existing registration to permit for its use on potatoes (EPA file no. 10182-18; PPOF 2307) and on alfalfa (EPA file no. 10182-18; PPOF 2308).

AMBUSH contains 25.6% of the active ingredient permethrin [3-phenoxyphenyl)methyl()-cis,trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate]; cis/trans ratio min. 35% ()cis, and max. 65% ()trans.

AMBUSH is currently registered for substantially similar uses on other field and vegetable crops for identical product formulations.

II. Directions for Use

The amended labels indicate the following:

For potatoes: application dosage 0.2-0.8 pt/A; apply as needed using > 20 gpa (ground). Do not apply more than 12 applications. Can be applied up to 7 days prior to harvest.

For Alfalfa: application dosage 0.4-0.8 pt/A (0.1-0.2 lb ai); the minimum spray volume per acre is 5 (aerial) and 20 (ground). Do not make more than 2 applications per cutting. Do not apply within 14 days of harvest.

III. Discussion of Data

No new environmental chemistry studies were submitted niether any are required for the proposed action.

IV. Conclusion

The environmental fate of AMBUSH's active ingredient is known and assessed in conjunction with the approved uses that are identical and substantially similar to those proposed here. Therefore, it is concluded that the new uses would not involve or pose any environmental hazards provided that the applicable rotational crops conditions are complied with.

V. Recommendation

EFB recommend the conditional registration for amendment of AMBUSH's existing registration based on our determination that its use on alfalfa and potatoes will constitute no risk to rotational crops beyond those which may be present in the existing pesticide usage. Our concurrence conjectures compliance with rotational crop restrictions comparable to those required for other crop uses .

M. Nawar

M. Nawar 7/5/80

Review Section #1

Environmental Fate Branch

Hazard Evaluation Division