To: Product Manager Mitchell (12)
TS-767

Through: Dr. Gunter Zweig, Chief Environmental Fate Branch

From: Review Section No. 1 Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 464-448 464-523

Chemical chlorpyrifos

Type Product: ___________________________________________

Product Name: Lorsban

Company Name: Dow

Submission Purpose: Add use of Lorsban on tobacco

ZEB Code: 3c7

Date in: 4/22/80

Date Completed: MAY 2 1980

Deferrals To:

____ Ecological Effects Branch

____ Residue Chemistry Branch

____ Toxicology Branch

Action Code: 320 on both EFB # 436,437
Introduction

The registrant is seeking amended registrations for the insecticides Lorsban 4E (ai chlorpyrifos 4 lb/gal, aromatic petroleum distillates 22.8%; Reg. No. 464-112) and Lorsban 15G (ai chlorpyrifos 15%; Reg. no. 464-523) which add the use on tobacco. Lorsban is currently registered for use on certain nuts and tree fruits and on field corn, sugar beets, sweet potatoes, and cotton. An incremental risk assessment is requested.

Chemical. 0,0-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate.

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[Formula Image]

chlorpyrifos

past submissions. See reviews dated 7/26/78 and 2/5/76.

Directions for Use

For Tobacco: Apply 2-3 lbs ai/A as a preplant broadcast (or spray) and immediately incorporate to a depth of 2 to 4 inches.

Discussion of Data

No data submitted

Recommendation

A significant incremental risk to the environment should not be associated with this additional use on tobacco. However, we note the following:

1) Neither proposed label contains the restriction "do not make more than one application per season" for use on tobacco. This restriction is placed on most accepted uses for chlorpyrifos. This point should be addressed by RCB.

2) An acceptable anaerobic soil metabolism study has not been submitted. Our review of 7/26/78 notes that the registrant planned to start this study in August, 1977. As yet that study, which is required to assess fully the environmental fate of chlorpyrifos, has not been submitted to EFB.

3) Lorsban 4E lists aromatic petroleum derivative solvent as an active ingredient. No comments are made regarding (or references to) the environment fate of this active.

Joe C. Reinert
Review Section 1
EFB
HED