TO: Bob Taylor  
Product Manager 25  
ES-767

FROM: Emil Regelman,  
Acting Chief  
Review Section No. 1  
Environmental Fate Branch  
Hazard Evaluation Division

Attached please find the environmental fate review of:

Reg./File No.: 10182-TT

Chemical: Paclobutrazol

Type Product: Plant growth regulator

Product Name: PP 333 WP Tree Growth Retardant

Company Name: ICI Chemical Co.

Submission Purpose: Application for new registration of new chemical

ZBB Code: (3)(c)(5)  
ACTION CODE: 115

Date in: 11/5/82  
EPB # 46

Date Completed: 1/31/83  
TAIS (level II) Days 63 1

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch
1.0 INTRODUCTION

ICI Americas has submitted an application for registration for the plant growth regulator PP 333 50 WP (Paclobutrazol, proposed as a.i.) for use on ornamental trees as a tree growth retardant.

1.1 Chemical

Common name: Paclobutrazol (proposed)

Chemical name: \((\pm)-(R^*,R^*)-4-[4'-chlorophenyl]-methyl]-2-(1,1-dimethyl)ethyl]-1H-1,2,4-triazole-1-ethanol

Chemical structure:

\[
\begin{align*}
\text{Cl} & \quad \text{CH}_2 \quad \text{CH} \quad \text{CH} \quad \text{C(CH}_3)_3 \\
\text{N} & \quad \text{N}
\end{align*}
\]

2.0 DIRECTIONS FOR USE

Use directions are appended to this review.

3.0 DISCUSSION OF DATA

Data presented in Volumes I and II are not pertinent to an environmental fate review for the proposed use of PP 333 50 WP.

4.0 EXECUTIVE SUMMARY

4.1 There are no environmental fate data available for PP 333 (paclobutrazol, proposed).

4.2 In the proposed use, PP 333 (paclobutrazol, proposed) is not applied directly to the soil or water environment. Any environmental exposure would result from gradual release through diffusion from the treated tree.

4.3 EPB concludes, at this time, the environmental risk from migration of PP 333 (paclobutrazol, proposed) from treated trees is minimal.
5.0 RECOMMENDATION

5.1 EFSA concurs with the registration of PP 333 (paclobutrazol, proposed) for the proposed use on ornamental trees as a tree growth retardant.

5.2 In the proposed use, PP 333 (paclobutrazol, proposed) is not applied to the soil or water environment. Thus, at this time, the usual environmental fate data requirements can be waived for PP 333 (paclobutrazol, proposed) for the proposed use.

Clinton Fletcher
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division
Paclobutrazol scientific review

Page ____ is not included in this copy.
Pages 4 through 8 are not included in this copy.

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___ Identity of product inert ingredients
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___ Description of product quality control procedures
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___ Sales or other commercial/financial information
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