

FILE COPY

Date Out EFB: 19 AUG 1982

To: Product Manager  
TS-767

From: Samuel M. Creeger *SM*  
Acting Chief, Review Section No. 1  
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 82-CA-92

Chemical: Bayleton

Type Product: Fungicide

Product Name: Bayleton 50 WP

Company Name: CDFA

Submission Purpose: Use on cucurbit powdery mildew - rotational  
crop problem?

ZBB Code: Sec. 18

ACTION CODE: 510

Date in: 8/12/82

EFB # 431

Date Completed: 19 AUG 1982

TAIS (level II)

Days

Deferrals To:

51

1

Ecological Effects Branch

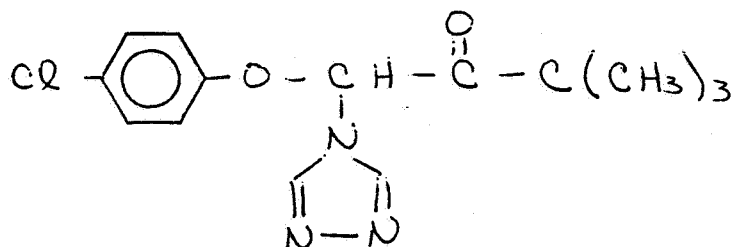
Residue Chemistry Branch

Toxicology Branch

## 1.0 INTRODUCTION

The California Department of Food and Agriculture has requested a specific exemption to use Bayleton 50 WP on cucurbits for control of powdery mildew. No more than 29,625 pounds active ingredient will be used over 79,000 acres.

## 2.0 Bayleton



1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone

## 3.0 CONCLUSIONS and RECOMMENDATIONS

- 3.1 EFB concurs with the granting of the emergency exemption.
- 3.2 The EFB review of June 11, 1982 addressed the Bayleton rotational crop issue. The conclusions/recommendations reached in that review are repeated below:

1. Definitive amounts of Bayleton and some of its degradation products were identified in the  $^{14}\text{C}$  rotational crop study. In addition, some of the cold studies showed higher residues at longer intervals than those found in the  $^{14}\text{C}$  studies.

2. Considering all the rotational crop data, the following crop rotation restrictions can be supported:

"Small grains" - Small grains may be planted 4 months after application but only the grain may be used for food or feed. Alternately, small grains may be planted 1 year after application."

"Root crops" - Root crops may be planted 4 months after application but the tops may not be used for food or feed. Alternately, root crops may be planted 1 year after application."

3. The data do not support any interval on leafy vegetables. A rotational crop study conducted under use conditions is needed.

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