

US EPA ARCHIVE DOCUMENT

Date Out EFB: JUN 3 1980

To: Product Manager Jacoby (PM 21)  
TS-767

From: Dr. Willa Garner *Garner*  
Chief, Review Section No. 1  
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 2125-318 and OF2349

Chemical Bayleton

Type Product: F

Product Name: Bayleton

Company Name: Mcbay

Submission Purpose: for use on grapes (fresh market only) and melons.

ZBB Code: 3(c)(7)

ACTION CODE: 330, 220

Date in: 5/7/80

EFB # 449, 450

Date Completed: JUN 3 1980

Deferrals To:

\_\_\_\_\_ Ecological Effects Branch

\_\_\_\_\_ Residue Chemistry Branch

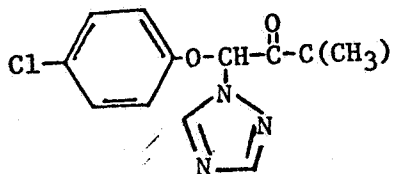
\_\_\_\_\_ Toxicology Branch

## 1.0 Introduction

### 1.1 Chemical Name: Bayleton 25W

Active Ingredient 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	25%
Inert Ingredients	75%

### 1.2 Chemical Structure:



1.3 Bayleton 25W is registered for use on Azaleas.

1.4 Submission Purposes: Conditional Registration of Bayleton 25W on grapes (fresh market only) and melons.

### 2.0 Directions for use:

Grapes (fresh market only): Apply 5.7 to 8.6 oz./acre as a foliar spray in a minimum of 30 gallons of water. A maximum of 3 applications may be made up to 3 days of harvest.

Melons: Apply 7oz./acre as a foliar spray in a minimum of 10 gallon of water. A maximum of 3 applications may be made up to day of harvest.

### 3.0 Discussion of Data

3.1 No Environmental Chemistry Data was submitted.

#### 4.0 Conclusions

- 4.1 The following studies were reviewed 8/8/78 and accepted: 1) Hydrolysis, 2) Photodegradation, 3) Aerobic Soil, 4) Anaerobic Soil Metabolism 5) Leaching, 6) Soil Field Dissipation.
- 4.2 The following studies were reviewed 8/8/78 and found to be unacceptable as prescribed in the guidelines: 1) Effects of Pesticides on Microbes and 2) Fish Accumulation Study.

#### 5.0 Recommendations:

- 5.1 A conditional registration for Bayleton 25W on grapes (fresh market only) may be issued if the following acceptable studies (as prescribed in the guidelines) are submitted within one year: 1) Effects of Microbes on Pesticides, 2) Effects of Pesticides on Microbes, 3) Adsorption Study and 4) Fish Accumulation Study.
- 5.2 A conditional registration for Bayleton 25W on melons may be issued if an 18 month crop rotational restriction is placed on the label and the following acceptable studies are submitted within 1 year: 1) Effects of Microbes on Pesticides, 2) Effects of Pesticides on Microbes, 3) Adsorption Study and 4) Fish Accumulation Study. The 18 month crop rotation restriction may be removed if acceptable crop rotation studies are submitted showing no detectable residues in the rotated crops. Consult the guidelines for protocol.

Note to PM: The activated sludge study requested 8/8/78 and required for registration of Technical Bayleton has not been submitted.

*John R. Harris*

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