

# FILE COPY

Date Out EFB: MAR 25 1980

To: Product Manager  
TS-767

Through: Dr. Gunter Zweig, Chief *BS*  
Environmental Fate Branch

From: Review Section No. 1 *RW Cook*  
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 3125-EUP-RAL, 3125-EUP-RAO

Chemical: 1-(4-Chlorophenoxy)-3, 3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-  
2-butanone

Type Product:

Product Name: Bayleton 50WP

Company Name: Mobay

Submission Purpose: Apples, Pears, Grapes

EFP #348

Action Code 270

ZBB Code: Sec 5

Date in: 01/07/80

Date Completed MAR 25 1980

Deferrals To:

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Ecological Effects Branch

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Residue Chemistry Branch

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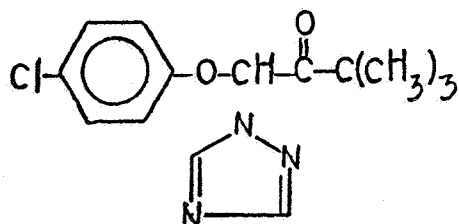
Toxicology Branch

# 1. Introduction

Chemical Name and Type Pesticide: 1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, 50% a.i., Fungicide.

Trade Name: Bayleton 50 WP

Chemical Structure:



Applicant requests two experimental use permits for BAYLETON 50 WP (presently registered for control of azalea petal blight), one for use on apples and pears (#3125-EUP-RAL), and the other for use on grapes (#3125-EUP-RAO).

EUP on apples and pears:

Request for 370 lbs. of formulated product containing 185 lbs. of active equivalent, and covering the period February 1, 1980 to December 31, 1982, to 15 states. About 210 lbs. of technical material will be imported.

EUP on grapes:

Request for 325 lbs. of formulated product containing 162.5 lbs. of active equivalent; and covering the same two year period, for three western states and one eastern. About 185 lbs. of technical material will be imported.

## 2. Directions for Use

### Apples and Pears

Applications will be made at the rate of 1/2 to 2 ounces of BAYLETON 50% Wettable Powder (1/4 to 1 ounces active) per 100 gallons of water in a uniform full coverage spray to the point of drip. Applications to be made as needed but not to exceed a total of 32 ounces active per acre per crop season. This application requests 370 pounds of BAYLETON 50% Wettable Powder [redacted] water soluble packets (185 pounds active) to be used on 185 acres allotted to the designated states as shown: Washington, Oregon, Idaho, Utah, California, Michigan, Ohio, New York, Pennsylvania, West Virginia, New Jersey, Virginia, Colorado, Missouri, Kansas.

### Grapes

Applications will be made at the rate of 2 to 6 ounces of BAYLETON 50% Wettable Powder (1 to 3 ounces active) per acre in ground or aerial equipment using gallonages recommended on label. Applications to be made as needed but not to exceed a total of 9 ounces active per acre per crop season. This application requests 325 pounds of BAYLETON 50% Wettable Powder [redacted] water soluble packets (162.5 pounds active) to be used on 290 acres allotted to the designated states as shown: Washington, Oregon, California, and New York.

## 3. Discussion of Data

### Hydrolysis

Stability of BAYLETON in Sterile Aquatic Buffer Solution, J. J. Obrist.

See previous review of 8/8/78.

Aerobic Soil Metabolism

The Metabolism of Triademefon (MEB 6447) in Barley in the Greenhouse and in Soil, K. Vogeler, Report No. 49445, 7/16/76.

See previous review of 8/8/78.

The Aerobic and Anaerobic Soil Metabolism of BAYLETON, R. R. Mango and R. J. Puhl, Report No. 51230, 1/12/77.

See previous review of 8/8/78.

4. Conclusions

Rotational crops are not involved.

5. Recommendations

EFB concurs with the proposed uses of BAYLETON 50 WP under the experimental use permits.

*Herbert L. Manning*  
Herbert L. Manning, Ph.D.  
Review Section #1  
Environmental Fate Branch