PROPRIETARY

FILE COPY

Date Out EFB: NOV 18 1980

To: Product Manager 21
TS-767

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

Attached please find the environmental fate review of:

Reg./File No.: 1G2432 and 3125-EUP-RTL

Chemical:

Type Product:

Product Name: Bayleton 50% WP

Company Name: Mobay

Submission Purpose: EUP on barley and wheat

ZBB Code: other

ACTION CODE: 220, 725

Date in: 11/12/80

EFB # 670 and 671

Date Completed: NOV 18 1980

Time (days) 2

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

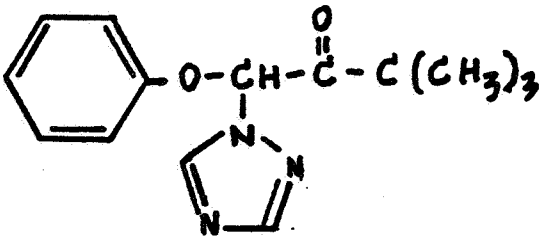
1.0 INTRODUCTION

This is a EUP request for fungicide use of a product, Bayleton 50% wettable powder. A total use of 3350 pounds of this product for a 2 year period on a total acreage of 3350 acres in 100-150 acre test lots located in Nebraska, North Dakota, Arkansas, Virginia, Georgia, New York, Pennsylvania, New Jersey, Illinois, Michigan, Indiana, Ohio, Texas, Oklahoma, Washington and Idaho has been proposed. Evaluation will be to control rust diseases on wheat and barley.

1.1 Chemical: Bayleton

1-(4-chlorophenoxy)-3,3-diamethyl -1-(1 H-1,2,4-tirazol-1-yl) -2-butanone

1.2 STRUCTURE



Bayleton 50% W.P.
Composition:

Components	% by wt
Bayleton Technical 92%	55
inerts	45

2.0 Directions.
A supplemental label for the experimental use includes the following information.

Apply specified dosage per acre in a uniform spray with a minimum of 20 gallons per acre by ground or 5 gallons per acre by air.

RECOMMENDED APPLICATIONS

CROP	DISEASE	BAYLETON 50%	REMARKS
Wheat Barley	Powdery mildew	2 to 4	Apply specified dosage per acre when disease symptoms first appear on lower leaves or stems. For maximum disease control the first application should be made prior to crop damage. If necessary, a second application should be made when new disease symptoms first appear. In areas of severe rust pressure use the higher rates of 6 to 8 ozs. per acre. The total amount of BAYLETON 50% WP should not exceed 16 oz. per acre per crop season and the last application should not be made within 60 days of harvest. Do not GRAZE or use for forage, feed, or fodder.
	Rusts (stripe, leaf, and stem)	4 to 8	

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL MUST BE FOLLOWED.

THIS LABEL MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

3.0 Experimental program:

Purpose: The product will be tested for mildew and rust control on wheat and barley. Also leaf and glume blotch caused by specific fungi, such as Septoria tritici, septoria nodorum and cephalosporium gregatum will be evaluated.

Procedure:

Two adjacent replicate plots will be treated besides untreated control plots using standard procedures and disease control evaluation techniques.

Bayleton 50% WP will be applied at a rate of 1.0 to 4 oz (wt. basis) active/acre as a foliar spray by ground or air, using the above recommended dosage in gallon/acre. A maximum of 8 ounces AI/acre may be used per season.

A total of 3,350 lbs of the product (1675 lbs AI) is proposed to be used in acreage figures as follows:

1. 150 Acres/year in both the 1st and second year in the following states NE, ND, NY, PA, Washington and Oregon.

2. 150 acres/year only in the 2nd year will be used in NJ, and Idaho.

3. 100 acres/year in both the 1st and 2nd year in AR, Ill, TX and OK.

4. 100 acres/year in the second year only in the states of MI, IN, and OH.

4.0 Conclusion:

The experimental use of Bayleton 50 WP will be for a total quantity of acres 3350 intended for use in acreage lots of 100-150 acres in several states for a two year period. In one season a maximum of 8 ounces (by wt) per acre may be used.

No data has been submitted but reference is made for E.C. data to previous submission.

EFB review dated 8/8/78 has accepted the submitted studies on hydrolysis, aerobic soil metabolism, and field dissipation studies.

5.0 Recommendation:

EFB will concur with the experimental use of Bayleton 50 WP as proposed if an 18 month crop rotation restriction is placed on the experimental label.

M. Shamaiengar
EFB/HED

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