

US EPA ARCHIVE DOCUMENT

Date Out EFB: JAN 5 1982

To: Jay Ellenberger
Product Manager 12
Registration Division (TS-767)

From: Dr. Willa Garner, Chief
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division (TS-769)

Attached please find the environmental fate review of:

Reg./File No.: 3125-102, -123, -193, and -301

Chemical: Azinophos Methyl [O,O-Dimethyl-S-((4-oxo-1,2,3-benzotriazin-3-(4H)-yl)methyl)phosphorodithioate

Type Product: Insecticide

Product Name: @GUTHION 2L, @GUTHION 2S, @GUTHION 50% Wettable Powder, and @GUTHION 50% Wettable Powder Crop Insecticide in Water-Soluble Packets

Company Name: Mobay

Submission Purpose: To add the crop Birdsfoot Trefoil to each label

ZBB Code: 3(c)(7)

ACTION CODE: 335

Date In: 11/2/81

EFB # 42,43,44,45

Date Completed: 1/4/82

TAIS (level II)

Days

60

1

Deferrals To:

 Ecological Effects Branch

 Residue Chemistry Branch

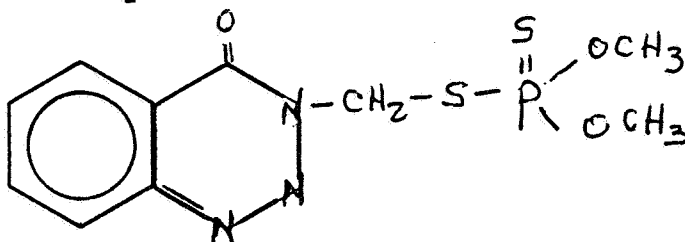
 Toxicology Branch

1.0 INTRODUCTION

On 10/19/81, Mobay petitioned RD to add the crop Birdsfoot Trefoil to the following labels:

- ⒸGUTHION 2L (3125-102),
- ⒸGUTHION 2S (3125-123),
- ⒸGUTHION 50% Wettable Powder (3125-193), and
- ⒸGUTHION 50% Wettable Powder Crop Insecticide in Water-Soluble Packets (3125-301).

2.0 STRUCTURE (Azinophos Methyl)



O,O-Dimethyl-S-((4-oxo-1,2,3-benzotriazin-3-(4H)-yl)methyl)-phosphorodithioate

3.0 DIRECTIONS FOR USE

See proposed labels appended to this review.

4.0 PREVIOUS REVIEWS

See review of 12/20/80

5.0 DISCUSSION

The proposed crop addition involves essentially the same formulations, use rates and application techniques already registered under the Reg. numbers noted in 1.0, above. The proposed label additions should have minimal incremental impact on the environment.

6.0 RECOMMENDATIONS

Since all environmental chemistry data requirements have been satisfied (except as noted in the review of 11/20/80), we concur with the proposed addition of Birdsfoot Trefoil to the above labels.

Emil Regelman
Chemist
EFB/HED

Reason to Issue: To propose use on birdsfoot trefoil.

Date of Draft: 10/19/81 (Pre-Reg) (T)

EPA Reg. No. 3125-102

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

GUTHION 2L

Emulsifiable Insecticide

ACTIVE INGREDIENTS:

- O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate 22.2%
- Aromatic Petroleum Distillate 59.8%

AMENDMENT

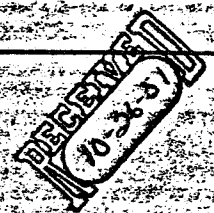
To Previously Registered Labeling

Amend As Follows:

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints GUTHION 2L	REMARKS
<u>Alfalfa</u> <u>Birdsfoot</u> <u>trefoil</u> (east of the Miss- ississippi River only) <u>Clover</u>	Alfalfa weevil	1 to 3	Apply specified dosage per acre using a minimum of 10 gallons of water per acre when applying with ground equipment, and a minimum of 5 gallons per acre for aerial applications for alfalfa weevils and at least 1 gallon per acre for the other insects listed. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Apply twice per cutting at the 1 pint rate at intervals of 10 to 11 days. Do not apply more than twice per cutting at the 1 pint rate. Apply only once per cutting at rates above 1 pint per acre. Do not apply within 14 days of harvest at the rates of 1 to 1-1/2 pints per acre or within 16 days at the rate of 2 pints per acre. Do not apply rates above 2 pints per acre within 21 days of harvest.
	Leafhoppers	1 to 2	
	Mites	1 to 2	
	Egyptian alfalfa weevil	1-1/2 to 3	
	Alfalfa plant bug	2 to 3	
	Fleahopper		
	Grasshoppers		
	Lygus bugs		
	Spittlebug		

All copy except that which is underscored has been previously registered.



Reason to Issue: To propose use on birdsfoot trefoil.

Date of Draft: 10/19/81 (Pre-Reg) (T)

EPA Reg. No. 3125-123-ZC

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

®GUTHION 2S
Emulsifiable Insecticide

ACTIVE INGREDIENTS:

O,O-Dimethyl S-[4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate 22%

Aromatic Petroleum Distillate 52%

AMENDMENT
To Previously Registered Labeling

Amend As Follows:

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints GUTHION 2S	REMARKS
<u>Alfalfa</u> <u>Birdsfoot trefoil</u> <u>(east of the Mississippi River only)</u> <u>Clover</u>	Alfalfa weevil	1 to 3	Apply specified dosage per acre using a minimum of 10 gallons of water per acre when applying with ground equipment, and a minimum of 5 gallons per acre for aerial applications for alfalfa weevils and at least 1 gallon per acre for the other insects listed. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Apply twice per cutting at the 1 pint rate at intervals of 10 to 11 days. Do not apply more than twice per cutting at the 1 pint rate. Apply only once per cutting at rates above 1 pint per acre. Do not apply within 14 days of harvest at the rates of 1 to 1-1/2 pints per acre or within 16 days at the rate of 2 pints per acre. Do not apply rates above 2 pints per acre within 21 days of harvest.
	Leafhoppers	1 to 2	
	Mites	1-1/2 to 3	
	Egyptian alfalfa weevil	2 to 3	
	Alfalfa plant bug	2 to 3	
	Fleahopper	2 to 3	
	Grasshoppers		
	Lygus bugs		
	Spittlebug		

All copy except that which is underscored has been previously registered.

DECLINE
10-26-81

Reason to Issue: To propose use on birdsfoot trefoil.

Date of Draft: 10/19/81 (Pre-Reg) (T)

EPA Reg. No. 3125-193-AA

®GUTHION

50% Wettable Powder

ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl]phosphorodithioate 50%

AMENDMENT

To Previously Registered Labeling

REVISE AS FOLLOWS:

CROP	INSECT	Pounds GUTHION 50% W.P.	REMARKS
<u>Alfalfa</u> <u>Birdsfoot</u> <u>trefoil</u> <u>(east of</u> <u>the Miss-</u> <u>issippi</u> <u>River</u> <u>only)</u> <u>Clover</u>	Leafhoppers Mites	1/2 to 1	Apply specified dosage per acre using a minimum of 10 gallons of water per acre. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Do not apply within 14 days of harvest at the rates of 1/2 to 3/4 pounds per acre or within 15 days at the rate of 1 pound per acre. Do not apply rates above 1 pound per acre within 21 days of harvest. Do not apply more than once per cutting at any rate.
	Alfalfa weevil Egyptian alfalfa weevil	3/4 to 1-1/2	
	Alfalfa plant bug Fleahopper Grasshoppers Lygus bugs Spittlebug	1 to 1-1/2	

Labeling except that underlined has been previously registered

RECEIVED
10/20/81

Reason to Issue: To propose use on birdsfoot trefoil.

Date of Draft: 10/19/81 (Pre-Reg) (T)

EPA Reg. No. 3125-301-AA

®GUTHION

50% Wettable Powder

Crop Insecticide

In Water Soluble Packets

ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate 50%

REVISE AS FOLLOWS:

RECOMMENDED APPLICATIONS

CROP	INSECT	Pounds GUTHION 50% W.P.	REMARKS
<u>Alfalfa</u> <u>Birdsfoot</u> <u>trefoil</u> <u>(east of</u> <u>the Miss-</u> <u>issippi</u> <u>River</u> <u>only)</u> <u>Clover</u>	Leafhoppers Mites	1/2 to 1	Apply specified dosage per acre using a minimum of 10 gallons of water per acre. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Do not apply within 14 days of harvest at the rates of 1/2 to 3/4 pounds per acre or within 16 days at the rate of 1 pound per acre. Do not apply rates above 1 pound per acre within 21 days of harvest. Do not apply more than once per cutting at any rate.
	Alfalfa weevil	3/4 to 1-1/2	
	Egyptian alfalfa weevil		
	Alfalfa plant bug	1 to 1-1/2	
	Fleahopper		
	Grasshoppers		
Lygus bugs Spittlebug			

Labeling except that underlined has been previously registered.

RECEIVED
10-27-81