

US EPA ARCHIVE DOCUMENT

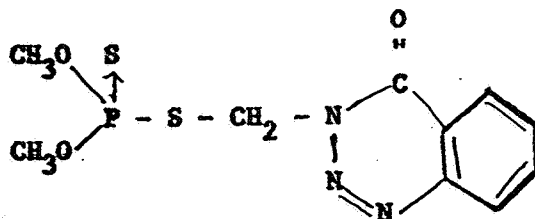
Key

RENey:scd 4/13/67

Evaluation of Pesticide Patent Number 7F0582
For O,O-Dimethyl S-[4-oxo-1,2,3-benzotriazin-3
(4H)-ylmethyl] phosphorodithioate (Guthion)
Submitted by Chemagro Corporation
Filed on March 31, 1967

INTRODUCTION

The chemical structure for Guthion is as follows:



The products and formulations are listed:

(a) Guthion 25% WP

Guthion	25.0%
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(b) Guthion Spray Concentrate

Guthion	22%
Are. Pat. Dist.	53%



Contains 2 lbs. A/gallon

INERT INGREDIENT INFORMATION IS NOT INCLUDED

(c) Guthion Liquid Concentrate

Guthion	22.2%
Aro. Pet. Dist.	70.8%

Contains 2 lbs. A/gallon

INERT INGREDIENT INFORMATION IS NOT INCLUDED

Chemagro is proposing the following:

CROP	PHI	TOLERANCE
Barley	30	0.1 ppm
Rye	30	0.1 ppm
Almonds	60	0.1 ppm
Almond hulls	60	12.5 ppm

DIRECTIONS FOR USE

Barley and Rye:

25% WP	1 1/2 to 2 lbs./A	(0.38 to 0.5 lbs. A/A)
Spray Conc.	1 1/2 to 2 pts./A	(0.38 to 0.5 lbs. A/A)
Liquid Conc.	1 1/2 to 2 pts./A	(0.38 to 0.5 lbs. A/A)

Do not apply more than once per season.

Do not harvest for food, feed, forage, or graze within 30 days of treatment.

Almonds:

25% WP	1 1/2 to 2 lbs./A	(0.38 to 0.5 lbs. A/A)
Spray Conc.	1 1/2 to 2 pts./A	(0.38 to 0.5 lbs. A/A)
Liquid Conc.	1 1/2 to 2 pts./A	(0.38 to 0.5 lbs. A/A)

Apply in 100 gal. of H₂O as full coverage spray using not more than 500 gal./A.

Do not apply more than twice per season nor within 60 days of harvest.

Allow 30 days between applications.

ANALYTICAL METHOD

Colorimetric method that measures parent compound and the oxygen analog.

DISCUSSION OF DATA

Some of the data submitted are listed below. Note that data (in total) for barley were submitted for NR Use on April 6, 1964.

CROP	DOSAGE Lbs. A/A	Gal. /A	# of APPLIC.	PHI	R E S I D U E S PPM	
					MEAT	HULLS
Almonds	1/2	400	3	32	0.3	207.8 ?
"	"	"	"	33	ND	6.0
"	"	"	"	61	"	9.3
"	"	"	"	62	"	6.1
"	3/4	"	"	33	"	10.2
"	"	"	"	61	"	9.0
"	1	"	"	32	"	55.2
"	"	"	"	"	"	3.2
"	"	"	"	"	"	3.5
					GRAIN	STRAW
Barley	1/2		1	23	ND	ND
"	"		1	32	"	"
Oats	"		1	23	"	"
"	"		1	32	"	"
Wheat	"		1	23	"	"
"	"		1	32	"	"

RECOMMENDATIONS

A favorable opinion is given for the use of Guthion on barley, almonds, and almond hulls.

An opinion is not given on rye, as there is no data to support this use.