

US EPA ARCHIVE DOCUMENT

Preliminary Evaluation for Registration of  
O,O-dimethyl s-[4-oxo-1,2,3-benzotriazin-3  
(4H)-ylmethyl] phosphorodithioate (Guthion)  
PP No. 2F1292, Reg. No. 3125-123  
Submitted by Chemagro Corporation  
Filed July 12, 1972

INTRODUCTION

1. See other petitions 7F0582, 7F0539, 9F0762, 0F0869, 0F0976 and 0F0984.
2. The petitioner is proposing the establishment of tolerance of 0.1 ppm in or on corn grain, fresh corn including sweet corn (kernels plus cob with husk removed) and 5.0 ppm in or on corn (dry forage and fodder).
3. Product - Guthion 25 (2 lbs A/gal) (Reg. No. 3125-123).

DIRECTIONS FOR USE

1. Apply 1/2 to 1 1/2 pints Guthion 2S per acre in aerial or ground spray equipment that has been adapted and calibrated for low-volume spraying.
2. The first treatment should be applied 20 days after beetles start to emerge with a second application 20 to 30 days later.
3. Do not apply more than 2 times per season.
4. Do not apply within 3 days of harvest for sweet corn.
5. Do not graze or ensile green forage.
6. Dry corn and dorage may be fed 60 days after last application.

FORMULATION

Active Ingredient

O,O-Dimethyl S-[4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl] phosphoro-	
dithioate	22%
~ Aromatic Petroleum Distillate	53%

Inert Ingredients

INERT INGREDIENT INFORMATION IS NOT INCLUDED

ANALYTICAL METHOD

GLC, colorimetric method, see petition OF0976.

DISCUSSION OF DATA

The petitioner request that residue data reported in ppm OF0976 be used in support of registration of this petition.

Data from previous evaluation of PPns OF0976 July 6, 1970.

Corn: Applied undiluted in aerial spray equipment for ultra low volume (ULV).

Lbs A/A	No. of App.	PHI	Kernel	Cob	Green Forage	Dry Forage
1	3	3	0.01	0.01	—	—
1	3	21	—	—	0.2	—
1	3	60	—	—	—	0.10
1	3	3	0.01	0.01	—	—
1	3	21	—	—	11.0	—
1	3	46	—	—	—	13.0
1	3	7	0.01	0.01	—	—
1	3	54	—	—	—	1.52
1	3	3	0.01	0.04	—	—
1	3	21	—	—	7.04	—
1	3	3	0.08	0.02	—	—
1	3	67	—	—	—	2.20
1	3	3	0.02	0.01	—	—

The residue data from pp no. OF0972 appears sufficient to support the proposed directions for use. Data are also sufficient to support a PHI of 60 days for dry forage and fodder and 3 days for corn grain.

Residue data for petition OF0976 is now on micro-film.

Poultry Tissues, Report 32916

Location: Stanley, Kansas

Appl. Method: In feed prepared with 50% W.P. for 28 days.

<u>Sample No.</u>	<u>PPM Active in Feed</u>	<u>Net PPM</u>
Fat tissue	0.5	0.02
"	3.5	0.05
"	7.0	0.11
Giblets	0.5	0.18
"	3.5	0.03
"	7.0	0.03
Muscle	0.5	0.07
"	3.5	0.01
"	7.0	0.01

Skin	0.5	0.02
"	3.5	0.02
"	7.0	0.02

Test from poultry feeding studies showed no appreciable build up of residues in the various tissues in the Babcock 13-300 hens when fed at the 0.5 to 7.0 ppm level during a period of 27 to 28 days.

#### CONCLUSION

1. Data appears to be sufficient to support the directions for uses.
2. Environmental data in reference to soil and water were previously reported in PP. no. OF0869.

#### RECOMMENDATION

- A. NAC. registration.

This petition was not reviewed scrupulously or in depth in accordance with verbal directive relayed to me a few months passed.