

FTS Sanders:RENEY:mbs
July 15, 1970

Evaluation of PP. No. OF0984 for O,O-dimethyl s-[4-oxo-1,2,3-benzotriazin-3 (4H)-ylmethyl] phosphorodithioate (Guthion) submitted by Chemagro Corporation, Filed May 21, 1970

INTRODUCTION

Other petitions 115, 207, 249, 314, 336, 355, 367, 394, 5F0442, 7F0539, 7F0582, 9F0762 and OF0976.

The petitioner is proposing the following tolerance:

Crop	PHI	PPM
Sorghum (Grain)	7	7.0

The name of the product are:

1. Guthion Spray Concentrate USDA Reg. No. 3125-123
2. Guthion Liquid Concentrate USDA Reg. No. 3125-102

DIRECTIONS FOR USE

Sorghum (Grain) - Formulation - Liquid and spray concentrate 1 1/2 pt/A (.375 lbs A/A) ULV application by air only.

Do not graze or use treated forage for feed or food.

Do not apply more than 7 times per season (7 app. = 2.625 lbs A/A).

A pre-harvest interval of 7 days is required for the use of sorghum (grain) as feed or food.

ANALYTICAL METHOD

GLC
Colorimetric

DISCUSSION OF DATA

Feeding soil and water studies are reported in PP. No. OF0869.

Data in reference to ground applications, interference studies and recovery studies of Guthion on sorghum are also reported.

Some of the residue data submitted on sorghum are listed below:

Sorghum applied in aerial spray equipment for ultra low volume (ULV).

Lbs A/A	No. of App.	PHI	Grain PPM	Forge PPM
.375	7	0	13.4	21.40
.375	7	3	9.5	12.82
.375	7	7	6.3	5.39
.375	7	14	4.0	5.40
.375	7	21	7.07	10.11
.375	7	0	7.30	57.27
.375	7	3	7.10	28.16
.375	7	7	3.50	18.56
.375	7	14	4.10	8.86
.375	7	21	3.62	15.66

Data in support of a 7 day pre-harvest interval on sorghum (grain) used for feed or food are questionable. See conclusion.

CONCLUSION

Data are too inconsistent to permit a reasonable evaluation of the use of Guthion in or on sorghum (grain) to render an opinion.

The following information may be needed:

We need to know what crops would be interplanted with and/or grown adjacent to sorghum grain and their use pattern.

We need to know the agricultural practices of crops interplanted with and/or grown adjacent to sorghum (grain).

We need to know the dilutions of the applications used in support of the residue data.

RECOMMENDATION

No opinion is given on sorghum (grain). See conclusion

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July 16, 1970

Subject: Pesticide Petition Number OF9984 requesting a tolerance for 0,0-dimethyl s-[4-oxo-1,2,3-benzotriazin-3 (4H)-ylmethyl] phosphorodithioate (Guthion) Submitted by Chemagro Corporation, and filed May 21, 1970

To: Charles L. Smith, Petition Control Office

We have examined the residue data, analytical methods and other information in this petition for a tolerance of 7.0 parts per million (ppm) in or on sorghum (Grain).

No opinion is given for the following reasons:

1. Residue data are too inconsistent to permit a reasonable evaluation on which to base an opinion.
2. We need to know the dilutions of each application to crops from which residue data were submitted.
3. We need to know what crops would be interplanted with and/or grown adjacent to sorghum (grain) and the use pattern of Guthion on such crops. Directions for use in Section B are not for a use of Guthion on sorghum but indirect use which results in residues in or on sorghum (grain and forage) interplanted with the other crops.
4. We need to know the agricultural practices of crops interplanted with and/or grown adjacent to sorghum (grain).

Chemical Evaluation Staff

ARS:PR:JAShaughnessy:PTSanders:REney:mbs 7/16/70