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11/22/67

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Evaluation to Amendment of Pesticide Petition No. 7F0582
For Guthion, submitted by Chemagro Corp.
Filed March 31, 1967
Amended by letter on November 10, 1967

INTRODUCTION

Chemagro has revised Sections B and F and submitted additional analytical method and residue data on barley, oat, rye and wheat grain and straw.

Section F	Tolerance Proposed		Was PPM
	PHI	New change PPM	
Barley grain	30	0.2	0.1
Oat "	30	"	"
Rye "	30	"	"
Wheat "	30	"	"
Almonds	60	0.4	"
Barley straw	30	2.0	-
Oat "	30	"	-
Rye "	30	"	-
Wheat "	30	"	-
Almond hulls	60	10 ppm	12.5

Oats and wheat were submitted in PP #7F0539 and deleted.

The proposed tolerance on straw has been added.

Oats and wheat are registered NR uses page 320 and 321A

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DIRECTIONS FOR USE

Barley, oats, rye and wheat -

Guthion 25%	Guthion LC	Guthion 5c	lbs.A/A
1 1/2 to 2 lbs./A	1 1/2 to 2 pts./A	1 1/2 to 2 pts/A	0.38 to 0.5

Do not apply more than once per season. Do not harvest for food, feed forage or graze within 30 days of harvest.

Almonds

25%	LC & SC	lbs.A/A
1 1/2 to 2 lbs./A	1 1/2 to 2 pts./A	0.38 to 0.5

Do not apply more than twice per season nor within 60 days of harvest. Allow 30 days between applications.

Oats and wheat have been added to Section B, formally in Section B of PP No. 7F0539 and deleted.

ANALYTICAL METHOD

Thermionic emission flame gas chromatographic method. The method is highly sensitive to phosphorus and has little response for chlorides. Samples of grain or straw are extracted with Skellysolve B (n-hexane). A portion is filtered and partitioned with acetonitrile and evaporated. The extract is chromatographed on alumina column and eluted and evaporated. The residue is taken up in acetone for injection into GC. The sensitivity of the method is about 0.005 ppm.

DISCUSSION OF DATA

Crop	oz.A/A	PHI	Net Residues PPM		Checks PPM		Location of Samples
			Grain	Straw	Grain	Straw	
Oats	12	41	0.01	1.67	0.01	0.01	ND
	8	30	0.01	0.01	"	0.01	Mont.
	8	29	0.03	0.81	"	0.09	Canada
	12	29	0.14	0.01	"	0.01	"
Wheat	8	23	0.01	"	"	0.01	Mont.
	12	41	"	0.68	"	0.03	ND
Barley	8	29	0.06	0.17	"	0.01	Iowa
	8	29	0.08	0.29	"	0.01	Mont.

Crop	Oz.A/A	PHI	Net Residues PPM		Checks PPM		Location of Samples
			Grain	Straw	Grain	Straw	
Rye	8	32	0.01	0.07	0.01	0.01	N. Y.

Data is limited on individual crops and geographical areas, however, all the above crops are in the same crop grouping; and a favorable opinion is given.

Data on almonds in previous evaluation of this petition and a favorable opinion is given.

RECOMMENDATION

A favorable opinion is given. This opinion is given on a limited amount of data.