

US EPA ARCHIVE DOCUMENT

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Evaluation of Data for Registration  
for Guthion  
Application of March 22, 1966  
by Chemagro Corporation  
Registration No. 3125

INTRODUCTION

Guthion is the trademark for O,O-Dimethyl 2-(4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl)phosphorodithioate.

The name of the product is Guthion U-L-V Spray Cotton Insecticide, 22.2% Guthion contains 2 lbs.A/gal.

This is a new use of an ultra low volume concentrate on cotton. Guthion has been registered at lb.A/A and a 0.5 ppm tolerance on cottonseed.

DIRECTIONS FOR USE

Cotton - Apply 1/2 to 1 pt./A (.125 to .25 lbs.A/A or 2 to 4 oz.A/A). Repeat as necessary but not within 1 day of picking. Cotton receiving late applications should not be pastured and gin trash from this cotton should not be feed. Aerial application at altitudes of 5 feet.

ANALYTICAL METHOD

Previously evaluated.

NATURE OF RESIDUES

Soil persistence - some data are listed.

Soil Type	Dosage	Time Interval	No. of Samples	Residues
Sack-Sand	10 ppm.	1	1	15.7
		32	1	5.2
		182	1	0.2
Clay		0	2	10.7-13.9
		30	2	6.6-19.9
		202	2	0.4-0.6

DISCUSSION OF DATA

The following data were submitted on cottonseed:

Type Application	Oz. A/A Dosage	No. of Application	Intv. to Harvest	No. of Samples	Residues
Ground	4	5	0	1	10.4
			1	"	0.7
			3	"	15.1
			7	"	2.2
Air	8	6	7	2	0.2
			14	2	0.2
Air	8	11	0		0.4
			1		0.3
			3		0.6
			7		0.2
			14		ND

Results of the above data indicate that there is a possibility that residues would exceed that of the tolerance. Data are inadequate in quality and quantity.

CONCLUSION

Data are insufficient to support the proposed use. Clarification of higher residues from lower dosage treatment.

RECOMMENDATION

It is recommended that this use not be accepted because of the reason in the conclusion.