

US EPA ARCHIVE DOCUMENT

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Evaluation of Data for Registration of Guthion
ULV on Sugarcane in Louisiana
Submitted by Chemagro on July 14, 1967

INTRODUCTION

This the ultra-low volume spray application. The ingredients in formulation are:

Guthion	22.2%
Aeromatic Petro Distillate	73.8%
Inert Ingredients	4 7 70

Uses in Louisiana only.

The present Summary entry is:

Use	Tolerance PPM	Dosage lbs.Actual/A	Limitations and/or Directions
Sugarcane	0.3	0.75 per acre (spray)	A aircraft application with 2 gallons water per acre, 30 day PHI. Maximum 5 applications. Do not feed treated forage to livestock.

DIRECTIONS FOR USE

2 lbs. actual ^{per gallon} ULV concentrate - apply 0.75 lb. actual/A of undiluted spray by aircraft, no more than 5 applications and 30 day PHI.

There is no caution against feeding or grazing on this label, and ~~none~~ ^{none} should be.

ANALYTICAL METHODS

Colorimetric
Same colorimetric method previously accepted.

DISCUSSION OF DATA

There are 13 studies of sugarcane treated with 1 pound actual guthion/ULV (no water). All the studies show residues less than the tolerance. The most applicable studies are 8 studies where 5 applications of 1 lb. actual were made; PHI was 31 and 43 days. These 8 studies show no detectable residue in the raw cane.

There is also a previously submitted study showing that any residue in the raw cane would end up in the bagasse. It is generally agreed that bagasse is not fed.

Soil persistence data indicates that residue do not build up from one season to another.

CONCLUSION

The 30 day PHI may be somewhat optimistic, but I think it is reasonable. Since all the data are for 1 lb. actual, the proposed use of 0.75 lb. actual appears reasonable. Because there are no feeding studies, the caution "Do not feed treated forage to livestock" is necessary.

RECOMMENDATION

It is recommended that the proposed ULV use be accepted with the comment that a caution against feeding is necessary.