

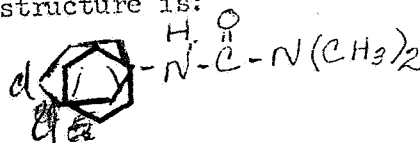
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6/14/66

Evaluation of Pesticide Petition No. 6F0495
For Diuron on Bananas
Submitted by E. I. du Pont de Nemours and Company
Filed on May 31, 1966

INTRODUCTION

The chemical name for Diuron is 3-(3,4-dichlorophenyl)-1,1-dimethylurea

The chemical structure is:



The name of the product is "Karmex" Diuron Weed Killer for Selective Weed Control in Bananas contains 80% Diuron as a WP.

Proposed tolerance is 1 ppm in or on bananas.

DIRECTIONS FOR USE

Bananas - At planting time, apply 1 1/2 to 3 lbs. (1.2 to 2.4 lbs.A/A) after planting, but before plants emerge.

In established plantings, apply 3 to 6 lbs. (1.8 to 4.8 lbs.A/A) directed spray. Repeat treatment as needed, but do not apply more often than 6 week intervals nor more than a total of 12 lbs./A (9.6 lbs.A/A) in a 12 month period. Do not plant any crop within 2 years, except that sugar can or pineapple may be planted one year after last application.

ANALYTICAL METHOD

Colorimetric method previously evaluated and approved. Published (Pease, J. A., Agriculture and Food Chem. Oct., 1962)

Sensitivity about 0.05 ppm.

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NATURE OF RESIDUES

Diuron is systemic.

DISCUSSION OF DATA

Some of the following data were submitted.

Dosage	Applic. to Harvest	Pulp	Peel	Whole Fruit
4.8	45	0.05	0.05	0.05
9.6	7	"	"	"
	21	"	"	"
	45	"	0.06	"
14.4	7	"	0.05	"
	21	"	"	"
	45	"	0.09	"
	90	"	0.08	"
9.6	3	-	-	"
	14	-	-	"
	45	-	-	"
	90	0.05	0.05	"
14.4	3	-	-	"
	14	-	-	"
	45	-	-	"
	90	0.05	0.06	"

We can give a favorable opinion.

CONCLUSION AND RECOMMENDATION

We can give a favorable opinion that this use will not result in residue above that of the proposed tolerance of 1 ppm.