US EPA ARCHIVE DOCUMENT

NCY

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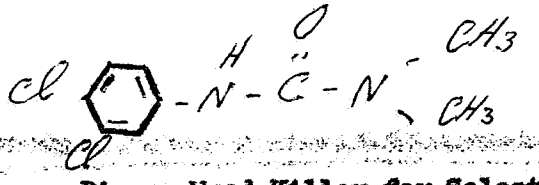
Evaluation of Data for Registration
for Diuron
Application of February 15, 1966
By E. I. Du Pont

Registration Number 352-247

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. Diuron is 80% WP.

This is a new use on bananas.

DIRECTIONS FOR USE

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

Established plantings, apply 3 to 6 lbs. (1.8 to 4.8 lbs. A/A) directed spray, avoid contact of plants with spray, repeat at 6 week intervals. Do not apply more than 9.6 lbs. A/A in 12 month period. Do not plant any crops except above 2 years.

ANALYTICAL METHOD

Colorimetric method previously evaluated and approved. Sensitivity is about 0.05 ppm.

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NATURE OF RESIDUES

Diuron is systemic.

Previous evaluations show that Diuron persist in soils for about one year.

DISCUSSION OF DATA

The following data were submitted on bananas. Untreated samples showed no detectable residues.

Dosage # A/A	PHI	Pulp	Peel	Whole Fruit
4.8	45	<0.05	<0.05	<0.05
	90	"	"	"
9.6	7	"	"	"
	21	"	"	"
	45	"	0.06	"
	90	"	0.05	"
14.4	7	"	"	"
	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	"

The data are acceptable for the proposed use.

CONCLUSIONS AND RECOMMENDATIONS

It appears that this use would not result in illegal residues. Therefore, it is recommended that the proposed use be registered.