US EPA ARCHIVE DOCUMENT

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RENey:rjt
12/11/67

Evaluation of Pesticide Petition No. 8F0662
for diuron [3-(3,4-dichlorophenyl)-1,1-dimethylurea]
Submitted by Du Pont
Filed November 21, 1967

INFORMATION WHICH MAY REVEAL INERT INGREDIENTS IS NOT INCLUDED

INTRODUCTION

Diuron has been registered on many crops as NR uses and with tolerances.

Du Pont is proposing the following:

Crop	Tolerance
Peppermint hay	2 ppm
Nuts	0.1 ppm

Peppermint, macadamia nuts and english walnuts have been registered as NR uses. Summary pages 350-353C Reg. No. 352-247.

The name and formulation of the product is as follows:

"Karmex" Diuron Weed Killer

Tech. diuron [redacted] 83.0%

Active 80% diuron.

DIRECTIONS FOR USE

Macadamia nuts (established 4.8 lbs.A/A. Apply as a directed spray to orchard floor immediately after harvest. Do not exceed 8 lbs.A/A yr. Do not graze livestock in treated orchards.

Peppermint - 2.4 lbs.A/A, apply after last cultivation in spring prior to emergence of mint.

Walnuts (English) - 4.0 lbs.A/A, single application in late fall or early winter to well established orchards (at least one year). 2.4 lbs.A/A. Split applications. Apply in October or November and repeat in March or April. Avoid spraying foliage or fruit.

ANALYTICAL METHOD

Colorimetric method previously evaluated and approved.

DISCUSSION OF DATA

Some of the data submitted on peppermint is listed:

Dosage lbs.A/A	PHI	Residues in PPM Hay	Oil
2	136	0.5	0.5
2	124	0.4	"
3	118	3.0	-
3	128	2.4	0.4
4	117	1.0	0.6
2	129	0.7	-

The use of diuron on peppermint is limited to Pacific Northwest. This limitation will have to stay as there are no residue data at 60 days which is normal harvest period in other areas.

Some of the data submitted on English walnuts is listed:

Dosage lbs.A/A	PHI	Residues in PPM Meat
2 + 2	168	0.05
2 + 2	169	"

Dosage lbs.A/A	PHI	Residues in PPM Meat
2 + 2	143	0.05
4 + 2	143	"
8 + 2	142	"
4	207	"
16	207	"

This use is limited to California and must remain so.

Some of the data submitted on Macadamia nuts is listed.

Dosage lbs.A/A	PHI	Residues in PPM Meat
10	56	0.05
10 + 10	56	"
4 + 4	56	"
20	113	"

This use is limited to Hawaii and must remain so.

CONCLUSIONS

A favorable opinion is given.

It should be noted that 3,4-dichloronitrobenzene, 3-(3,4-dichlorophenyl)-1-methylure, 3-(3,4-dichlorophenyl)urea, and 3,4-dichloroaniline could be present as metabolites in corn as described by J. H. Onley and G. Yip of FDA at the 81st Annual Meeting of the AOAC. It could be assumed that if any of these possible metabolites are present in corn, they could be present in other crops. More evidence is needed to substantiate Onley's and Yip's report as well as the reviewers assumption.