

US EPA ARCHIVE DOCUMENT

Date Out EFB:

MAY 26 1981

To: Product Manager Jacoby (21)
TS-767.

From: Dr. Willa Garner ¹¹¹
Chief, Review Section No. 1
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 100-607

Chemical: Metalaxyl

Type Product: Fungicide

Product Name: Ridomil

Company Name: Ciba-geigy

Submission Purpose: Review of 6th groundwater monitoring study.

ZBB Code: other

ACTION CODE: 571

Date in: 4/17/81

EFB # 817

Date Completed: MAY 26 1981

TAIS (level II) Days

Deferrals To:

60

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Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

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1.0 INTRODUCTION

1.1 Purpose

Ciba-Geigy is requesting review of the sixth ground water monitoring studies for metalaxyl 2 E Fungicide (Ridomil), which is currently registered under 3(c)(7) for use on tobacco [Reg. No. 100-607], and under 24-C for use on non-bearing citrus in Florida (submission of 4/17/81).

1.2 Previous Reviews

100-607	3/11/81
100-607	1/12/81
100-EUP-1, 8G 2121	12/1/80
Fla-8000-32	10/8/80

1.3 Background

Previous reviews of monitoring data have shown that metalaxyl residue in soils were relatively immobile and remained in the unsaturated zone of soil; i.e., in the upper 3 feet layer of soil. No residues were detected in ground water in the test areas of Florida and Maryland. Accordingly, studies in Suwanee County, Florida were discontinued as of February, 1981. Ongoing programs are: The Indian River monitoring studies in Florida and the Tobacco Experimental Farm in Maryland.

Data reviewed in the fifth interim report, included the analytical results for samples collected at intervals until up to 135 days after application. This report (6th), contains the analytical results for samples collected on 12/8/80 and 2/13/81, corresponding to 152 to 219 days post-application. Additionally, the report included the results from reanalysis of the 91-, 106-, 121- and 135-day intervals after application.

1.4 Environmental Profile

Full details on the environmental fate of metalaxyl are given in our previous review of 3/11/81.

2.0 DISCUSSION OF DATA

The sixth interim ground water monitoring study was submitted in volume 1 of 1, on 4/17/81, filed under accession No. 244848. No additional environmental chemistry data were submitted.

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Data from The Tobacco Experimental Farm in Maryland

This study has now proceeded for 219 days. A total of 19.05 inches of rain has fallen since the first application, and a total of 14.7 inches since the second application (5/29/80 to 2/13/81). Water samples from six wells and one control well as well as soil samples were analyzed for parent only.

Soil residue analysis at 152 and 219 days after application, showed no metalaxyl (< 0.05 ppm) below the 18 inches depth. Similarly, well water analysis at 152 and 219 days after treatment showed no (< 0.001 ppm) detectable metalaxyl in any of the samples analyzed.

3.0 RECOMMENDATIONS

We recommend that further ground water and soil residue monitoring should continue in the Tobacco Experimental Farm in Maryland as well as those currently underway in the Indian River in Florida. This is because of certain deficiencies as noted in our previous review of 3/11/81 which are: (a) the experimental dosage; (b) the below average rainfall; (c) the experimental design; and (d) reporting deficiencies. For more details on these deficiencies, please refer to the conclusion section (5.0) in EFB review of 3/11/81.

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