

not in file

Shaughnessy Number: 113501

Date Out of EFGWB: APR 11 1989

MAY -3 1989

TO: Lois Rossi  
Product Manager 21  
Registration Division (H7505C)

FROM: Patrick Holden, Chief  
Ground-Water Section  
Environmental Fate & Ground-Water Branch/EFED (H7507C)

THRU: Henry Jacoby, Chief (Acting)  
Environmental Fate & Ground-Water Branch/EFED (H7507C)

Attached, please find the EFGWB review of:

Reg./File #: \_\_\_\_\_

Chemical Name: Metalaxyl

Type Product: Fungicide

Company Name: Ciba-Geigy Corporation

Purpose: Review proposed protocol for small-scale retrospective  
ground-water monitoring study.

Date Received: 3/17/89 ACTION CODE: 177

Date Completed: 4/21/89 EFGWB #(s): 90457

Monitoring study requested: X Total Review Time: 1 day

Monitoring study voluntarily: \_\_\_\_\_

Deferrals To: \_\_\_\_\_ Biological Effects Branch  
\_\_\_\_\_ Science Integration & Policy Staff, EFED  
\_\_\_\_\_ Non-Dietary Exposure Branch, HED  
\_\_\_\_\_ Dietary Exposure Branch, HED  
\_\_\_\_\_ Toxicology Branch, HED



Use this form for individual studies & to submit pesticide applications.

<b>United States Environmental Protection Agency</b> <b>Office of Pesticide Programs</b> Washington, DC 20460					Pack Number  <div style="font-size: 1.5em; font-family: cursive;">49136</div> <div style="font-family: cursive;">EFED</div>	Date Received  <div style="font-size: 1.5em; font-family: cursive;">3-22-89</div>
<div style="display: inline-block; vertical-align: middle; text-align: center;"> <b>Data Review Record</b>  <small>Confidential Business Information - Does not contain National Security Information (E.O. 12065)</small> </div>						
1. Product Name <span style="font-family: cursive; font-size: 1.2em;">Metaldehyde</span>					Chemical Name	
2. Identifying Number <div style="font-family: cursive;">10-623</div>	3. Record Number <div style="font-family: cursive;">242077</div>	4. Action Code <div style="font-family: cursive;">177</div>	5. MRID/ Accession Number	6. Study Guideline or Narrative		
7. Reference No. <div style="font-family: cursive;">1</div>	8. Date Rec'd (EPA) <div style="font-family: cursive;">3/17</div>	9. Prod/Review Mgr/DCI <div style="font-family: cursive;">ROSSI</div>	10. PM/RM Team No. <div style="font-family: cursive;">21</div>	11. Date to HED/ EFED/RD/BEAD <div style="font-family: cursive;">3/21</div>	12. Proj Return Date <div style="font-family: cursive;">4/21</div>	13. Date Returned to RD/SRRD
Instructions						
This Section Applies to Review of Studies Only						
14. Check Applicable Box <input type="checkbox"/> Adverse 6(a)(2) Data (405) <input type="checkbox"/> Special Review Data (870)					<input type="checkbox"/> Generic Data (Reregistration)(660) <input type="checkbox"/> Product Specific Data (Reregistration)(655)	
15. No. of Individual Studies Submitted						
16. Have any of the above studies (in whole or in part) been previously submitted for review? <input type="checkbox"/> Yes (Please identify the study(ies))					<input type="checkbox"/> No	
18.	To	Type of Review	19. Reviews Also Sent to		20. Data Review Criteria	
HED		Science Analysis & Coordination	<input type="checkbox"/> SAC	<input type="checkbox"/> PC	A. Policy Note No. 31  <input type="checkbox"/> 1 = data which meet 6(a)(2) or meet 3(c)(2)(B) flagging criteria  <input type="checkbox"/> 2 = data of particular concern from registration standard  <input type="checkbox"/> 3 = data necessary to determine tiered testing requirements	
		Toxicology/HFA	<input type="checkbox"/> TOX/HFA	<input type="checkbox"/> PL		
		Toxicology/IR	<input type="checkbox"/> TOX/IR	<input type="checkbox"/> EA		
		Dietary Exposure	<input type="checkbox"/> DEB	<input type="checkbox"/> AC		
		Nondietary Exposure	<input type="checkbox"/> NDE	<input type="checkbox"/> BA		
EFED	<input checked="" type="checkbox"/>	Ecology	<input type="checkbox"/> EEB		B. Section 18 <input type="checkbox"/> 1 = data in support of section 3 in lieu of section 18  C. Inert Ingredients <input type="checkbox"/> 1 = data in support of continued use of List 1 inert	
		Environmental Fate & Groundwater	<input type="checkbox"/> EFGWB			
SRRD		Special Review	<input type="checkbox"/> SR			
		Reregistration	<input type="checkbox"/> RER			
		Generic Chemical Support	<input type="checkbox"/> GSC			
RD		Insecticide-Rodenticide	<input type="checkbox"/> IR			
		Fungicide-Herbicide	<input type="checkbox"/> FH			
		Antimicrobial	<input type="checkbox"/> AM			
		Product Chemistry				
BEAD		Precautionary Labeling				
		Economic Analysis				
		Analytical Chemistry				
		Biological Analysis				
<input type="checkbox"/> Confidential Statement of Formula (EPA Form 8570-4) Attached (Trade Secrets)			<input type="checkbox"/> Label Attached			

REVIEW OF PROTOCOL FOR SMALL-SCALE RETROSPECTIVE GROUND-WATER MONITORING STUDY

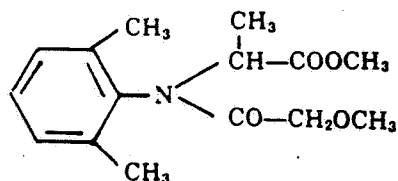
1. CHEMICAL:

Chemical name: N-(2,6-Dimethylphenyl)-N-(methoxyacetyl)-alanine methyl ester

Common name: Metalaxyl

Trade name: Ridomil, Subdue, Apron, Proturf

Structure:



2. TEST MATERIAL:

Not Applicable.

3. STUDY/ACTION TYPE:

Review proposed protocol for small-scale retrospective ground-water monitoring study.

4. STUDY IDENTIFICATION:

Title: Small Scale Retrospective Study for Metalaxyl in Ground-Water- Protocol.

Author(s): Roux Associates  
The Huntington Atrium  
775 Park Avenue, Suite 255  
Huntington, New York 11743

Submitted for: Agricultural Division  
Ciba-Geigy Corporation  
Post Office Box 18300  
Greensboro, NC 27419

Identifying No.: 100-628  
Action Code: 177  
Accession Number: not given  
Record Number: 242077  
Date Sent to EFED: 3/21/89

5. REVIEWED BY:

Elizabeth Behl  
Hydrogeologist Consultant to  
OPP/EFED/EFGBW/Ground-Water Section

Signature:

*Eliz. Behl*  
Date: 4/28/89

6. APPROVED BY:

*John* Patrick W. Holden  
 Chief  
 OPP/EFED/EFGBW/Ground-Water Section

Signature: *Henry M. Jacoby*Date: *5/1/89*7. CONCLUSIONS:

The data package is incomplete, and therefore, cannot be fully screened to complete the review of this protocol for the small-scale retrospective ground-water monitoring study. Three monitoring sites are proposed representing tobacco, citrus, and lettuce crops. The protocol asserts that the justification of the selection of the monitoring sites is contained in "the Sensitivity Analysis and Preliminary Site Selection reports that accompany this protocol" (p. 5, last sentence). Neither of these reports have yet been submitted to EPA. This information is required in order to approve the number and location of the monitoring sites. As per conversation with Mario Fiol (RD, 4/24/89) and Karen Stumpf (Ciba-Geigy, 4/25/89) these reports will be remitted to EPA as soon as possible.

The protocol is being returned. We are retaining a copy of the protocol in our EFGWB files for easy access in the future. When the registrant submits the above reports the protocol can be fully screened.

8. RECOMMENDATIONS:

- 1) The registrant should submit the ground water monitoring study protocol and all reports necessary to enable the reviewer to assess the protocol.

9. BACKGROUND:

Metalaxyl is a systemic fungicide registered since 1979 for use on over 100 agricultural crops, ornamentals and turf. Some principle uses are tobacco, ornamentals, turf, fruit, citrus, non-bearing nursery stock, seed treatment, vegetables and peanuts. It is applied to soil or foliage at rates ranging from 0.135 to 8.0 # a.i./acre. Methods of application include: foliar application, soil application (broadcast or band), drenching, sprinkler or drip irrigation, and soil mixing.

Metalaxyl is moderately stable to hydrolysis and photodegradation under normal environmental conditions. Results of laboratory and field leaching studies indicate that both the parent and the primary degradate (CGA-62826) can leach in most soils (Metalaxyl Registration Standard [FRSTR], 7/9/87). Tests indicate that metalaxyl is not oncogenic, mutagenic, or teratogenic, and that acute toxicity is low (memo: Barbehem to Rossi, 7/17/87).

Metalaxyl has been reported in ground water in Florida and North Carolina, according to EPA's Pesticides in Ground Water Database (4/19/89). Data submitted to EPA for review are inadequate to determine leaching potential, yet laboratory studies indicate that the parent and major degradate can rapidly leach. Therefore, a small-scale retrospective ground-water study was required (Metalaxyl Registration Standard [FRSTR], 7/9/87).