To:	Product Manager 21 (Wilson) TS-767
Through:	Dr. Gunter Zweig, Chief Environmental Fate Branch
Through:	Mr. James Conlon, Acting Director Hazard Evaluation Division, TS-769
From:	Review Section No. 1 2 Per Environmental Fate Branch
Attached	please find the environmental fate review of:
Reg./File	No.:100-EUP-62
Chemical:	N-(2,6-dimethy1pheny1)-N-(methoxyacety1)
calanine	methyl ester Tradename Ridomil 2E
Type Prod	uct: I, D, H, (F,) N, R, S, Fungicide
Product N	ame: Ridomil 27
Company N	ame: Ciba-Geigy Corp
	n Purpose: Experimental Use permit: control of
^black`sh	ank on tobacco
Date in:	8-2-78 ·
Date out:	

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- 1.0 Introduction
- 1.1 Rodomil, CGA-48988
- 1.2 New Chemical N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester
- 1.3 Percent Active: 25%
  2 lbs ai/gallon
  EC formulation
- 1.4 Structure:

Mode of Action: Fungicidal

1.5 Physical / Chemical Properties

1.6 A total of 860 lbs ai (430 gallons) are to be shipped covering 430A in 10 states east of the Mississippi (CN, FL, GA, KN, MO, NC, PA, SC, TN, VA) per 1 year - proposed EUP is for two years (for use on tobacco).

#### 2.0 Directions for Use.

Flue Cured Tobacco	-,-,- ^,,-				
	Rate of Ridomil 2E per arce				
		, <u>, , , , , , , , , , , , , , , , , , </u>			
w .	Disease-Level-expected*				
"Application"	Low	- Moderate	HighV	ery High	
Broadcast before	,			*	
for after be ding	1-qt	7772 jts.	4 ats	6-qts	
Band (per 12,500	l-qt.	2-qts.	4_qts.	6_qts.	
ft: of row)**					

- \*Fields where disease symptoms have occurred on less than 1% of plants have a low disease level; 1-6% loss is a moderate disease level; 7-25% loss is a high disease level; losses in excess of 25% are a very high disease level.
- \*\*A band application of 1, 2, 4 or 6 qts. per acre of tobacco (12,500 ft. of row) is equal to 2.6, 5.2, 10.3 or 15.5 fl. oz. per 1,000 ft. of row, respectively, for any row spacing.

  Incorporate top 2-4" of soil immediately after application.

### Burley and Other Tobacco

Band Treatment: Apply Ridomil 2E at 4 to 6 qts. per acre of tobacco (12,500 ft. of row) or 10.3 to 15.5 fl. oz. per 1,000 ft. of row. Apply in an 18-24 inch band over the row and incorporate into the top 3-4 inches of soil immediately after application with an appropriate incorporation implement.

Broadcast Treatment: Apply 4-6 qts. per acre. Incor orate in the top 3-4 inches of soil immediately after application with an appropriate incorporation implement.

#### Rotational Corps

If replanting is necessary, tobacco may be replanted immediately. Do not make a second application of Ridomil 2E. Tobacco may be planted the year following treatment. Other crops may be planted 18 months following application.

# 2.1 Disposal

Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

## 3.0 Discussion of Data

Data will be reviewed for permit only.

Environmental Parameter	Parent t-1/2	Degradate/ metabolite	Other Characteristics	
Hydrolysis	Stable pH 5,7,9 [>200d;5,7] [>100d; 9]	1 ) N-2.6- dimethylphenyl) -N-(methoxy acetyll-alanine	#Extreme pH 1 and 10 to t 1/2 >28d and 3-7d.	
Photolysis (Soil)	Stable			
Soil (Aerobic)	35 <b>d</b> •	<ul> <li>i) N-(2,6-dimethylphenyl)</li> <li>-N-(methoxy acetyl)-alanine</li> </ul>	Bound residues 27% at 1 3D, 10% at 360d.	
		2) 2,6-dimethylace tanilide		
Soil (Anaerobic)	<b>50-</b> 80đ	Sam€	Bound residues	

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Mobility

Both parent and degradate leach to the 15-30 cm depth in sandy soils. In loamy soils the parent and degradate leach to the 15 cm level. O.M. related.

Adsorption/ Desorption Parent does not adsorb/desorb readily.

4.0 General Conclusions

Microbial action is important to the degradation and dessipation of this chemical.

Crop rotation interval of 18 mos. is satisfactory for this permit.

- 5.0 Recommendations
- 5.1 We have enough data to assess the environmental fate of this compound for the EUP.
- 5.2 Data has been reviewed/validated for the EUP only and has not been reviewed/validated for registration.

5.3 All Environmental Chemistry data in Section 3 Regulations will be required for registration (See attached sheet).

- B/1/78.

Robert F. Carsel

Environmental Fate Branch Hazard Evaluation Division

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