9-8-82

# 113501 SHAUGHNESSEY NO.

REVIEW NO.

# EEB BRANCH REVIEW

DATE: I	N 8-5-82 OUT 9-8-82	
FILE OR REG. NO.	100–607	
PETTITION OR EXP. PERM		
DATE OF SUBMISSION	7-28-82	
•	8-4-82	
er en	N DATE 10-14-82	
EEB ESTIMATED COMPLETI	ON DATE 10-7-82	
	REVIEW 330/Amendment - New Fo	
· · · · · · · · · · · · · · · · · · ·		
TYPE PRODUCT(S): I, D,	H, F, N, R, S Fungicide	
	H. Jacoby (21)	
•	Ridomil 2E Fungicide	
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COMPANY NAME	Ciba-Geigy	
	Proposed Conditional Regist	
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	in the state of th	
SHAUGHNESSEY NO	CHEMICAL, & FORMULAT	ION % A.I.
113501	Metalaxyl	25.119

Ridonil 2E

### 100 Pesticide Label Information

#### 100.1 Pesticide Use

Fungicide for use on squash

#### 100.2 Formulation Information

Ridomil is 25.11% Metalaxyl

# 100.3 Application Methods, Directions and Rates

Apply as foliar spray 1/2 to 1 pint of Ridonil® 2E per acre as a tank mix with other fungicides such as Bravo® 500, Dithane® M-22, Manzate®, Dithane® M-45, or Manzāte® 200 in sufficient water to obtain thorough coverage. Start application when the squash plants are in the "two-leaf" stage and continue at 14-day intervals throughout the season. Do not apply more than 6 pints of Ridonil® 2E per acre per season.

#### 100.4 Target Organism

For control of downy mildew caused by Pseudoperonospora cubensis.

## 100.5 Precautionary Labeling

There was no precautionary statement included on the label.

### 101 Physical and Chemical Properties

See previous review by J. Tice dated 6/26/81 (This is the review for the numerous uses.)

#### 102 Behavior in the Environment

Summary taken from review by J. Tice dated 6/26/81: "Ridomil is stable to hydrolysis and soil surface photoplysis but does photodegrade in water with a half-life of 1 week. Photosensitizers accelerate degradation. Aerobic and anaerobic soil half-lives are 7 to 9 weeks, respectively, with CGA-62826 forming which in turn breaks down. Soil microbes metabolize Ridomil but soil microbe functions are not affected at use rates. Ridomil and its soil residues leach strongly in soil and especially strongly in sandy soils low in organic matters. Ridomil dissipates under field conditions with a half-life of 2 weeks and accumulation in whole fish is not expected to exceed 10X."

# 103 Toxicological Properties

#### 103.1 Mammals

From review by J. Tice dated 6/26/81. Rats Acute Oral LD<sub>50</sub> = 669 mg/kg 90% A.I.

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### 103.2 Minimum Requirements

Selected test results from DER's.

Organism	Test	Results	Test Material	Category
Mallard Duck	Acute Oral	$LD_{50} = 1466 \text{ mg/kg}$	96.9%	Core
Bobwhite Ouail	8-Day Dietary	LC <sub>50</sub> > 10,000 ppm		Core
Mallard Duck		" >10,000 ppm .	. <b>W</b> ∫ v v v	Core
Bluegill Sunfish	96-hr	LC <sub>50</sub> >100 ppm	95.1%	Core
Rainbow trout	96-hr	$LC_{50} = 132 \text{ ppm}$	H	Core
Daphnia magna	48-hr	$LC_{50} = 121 \text{ ppm}$	11	Core

# 104 Hazard Assessment

According to the basic toxicity test results, Metalaxyl is slightly toxic to mammals and birds and practically non-toxic to fish and aquatic invertebrates.

According to the fate information Metalaxyl is not very persistent in the field nor does it tend to bioaccumulate in fish.

The proposed use, squash, does not provide for a significant increase in acreage and should not increase the exposure of Metalaxyl to non-target organisms over those uses already assessed in J. Tice's review both dated 6/26/81.

# 104.3 Endangered Species

Considering it's low toxicity and short half-life, Metalaxyl should not adversely affect endangered species when used on squash.

# 104.4 Adequacy of Toxicity Data

The available toxicity data were sufficient to perform this hazard assessment.

#### 107 Conclusions

#### 107.5 Data Requests

No additional data are needed at this time.

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# 107.7 Recommendations

EEB has completed an incremental risk assessment of the proposed conditional registration of Ridomil® for use on squash. Based upon available data EEB concludes that the proposed use provides for no significant increase in exposure or risks to non-target organisms.

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