To: Lois Rossi Product Manager # 21 Registration Division (TS-767)		
From: Therese M. Dougherty, Chief Environmental Chemistry Review Section 1 Exposure Assessment Branch Hazard Evaluation Division (TS-769-C)		
Attached, please find the EAB review of		
Reg./File # : 359-685		
Chemical Name: Iprodione		
Type Product : Fungicide		
Product Name : Rovral Fungicide		
Company Name : Rhone-Poulenc, Inc.		
Purpose : Review request to add potatoes to label.		
Date Received: 8/18/87 Action Code: 335		
Date Completed: DEC - 4 1987 EAB #(s): 70900		
Monitoring study requested: Total Reviewing Time: 0.8 day		
Monitoring study voluntarily:		
Deferrals to: Ecological Effects Branch Residue Chemistry Branch Toxicology Branch		

Shaughnessy No.: 109801

Date Out of EAB: DEC - 4 1987

1. CHEMICAL: Common name:

Iprodione

Chemical name:

3-(3,5-Dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1imidazolidinecarboxamide.

Trade name(s):

Rovral, RP 26019, Glycophene

Structure:

Formulations:

50% WP

Physical/Chemical properties:

Molecular formula: $C_{1.3}H_{1.3}Cl_{2}N_{3}O_{3}$. Molecular weight: 329.9

Physical state: White, odorless, nonhygroscopic crystals. Solubility: Soluble in acetone and benzene. Almost insoluble in water (13 mg/L).

TEST MATERIAL: N/A 2.

Not applicable. No data were sumbitted.

3. STUDY/ACTION TYPE:

The registrant is requesting an amendment to the Rovral label to include use on potatoes to control early blight and white mold.

4. STUDY IDENTIFICATION:

Not applicable. No data were submitted.

5. REVIEWED BY:

Herbert L. Manning Microbiologist EAB/HED/OPP

DEC - 4 1987 Date:

6. APPROVED BY:

Therese M. Dougherty Chief Review Section #1, EAB/HED/OPP Signature: Mans M. Northety
DEC - 4 1987

7. CONCLUSIONS:

EAB has reviewed the data in our file regarding the request to add potatoes to the label and finds that <u>most</u> of the data requirements for a terrestrial crop use (e.g. potatoes) have been satisfied. See RECOMMENDATIONS for required studies.

8. RECOMMENDATION:

The data required to register a pesticide for use on potatoes and their current status in our files is as follows:

Data Requirement	Status in File
• Hydrolysis	Accepted.
Photodegradation (water)	Accepted.
Photodegradation (soil)	Accepted.
• Aerobic and anaerobic soil metabolism	Accented.
Leaching (soil column) acceptable, the conclusion was for leaching by parent and degree finer textured soils.	that there is some potential
• Field soil dissipation	Accepted.
• Fish accumulation	Accepted.
 Confined rotational crop	te proposed for potatoes.

Potential to leach to groundwater: In assessing the potential of a pesticide to leach, certain studies are considered, namely, hydrolysis, photolysis, aerobic soil/field dissipation, Kd, and solubility in water. For iprodione, hydrolysis t_{1/2} is ca. 20 days (pH 6); it is stable at pH 3 and t_{1/2} is one day at pH 9. Photolysis t_{1/2} is <one week. Persistence (t_{1/2}) of parent in a field dissipation study ranged from one to 12 weeks. Iprodione is very insoluble in water (13 ppm). While

respectively.

iprodione and its major degradate, RP-30228, is fairly persistent (one to 12 weeks) in soil and column leaching may occur with finer textured soils, based on the other known parameters the evidence indicates that iprodione would have a low potential to leach to groundwater.

Therefore, the study that is required for registration of potatoes is:

Confined rotational crop

EAB could concur with granting conditional registration of iprodione on potatoes with the provision that labeling restrictions noted below for rotational crops are observed and a confined crop rotation study is initiated and submitted.

The specimen label (proposed) submitted by the registrant states the following:

NOTE TO USER: The following crops may be rotated after harvest:

Garlic, Dry Bulb Onions, Leafy Vegetables, and Peanuts.

The following crops may be rotated the year following treatment: Poot Crops, Cereal Grains, Soybeans, and Tomatoes.

EAB has no rotational crop data for any of the crops listed. However, it was communicated to us by Residue Chemistry Branch that the crops shown as being rotated after harvest (garlic, dry bulb onions, head lettuce, and peanuts) have established tolerances, which would allow them to be rotated after harvest without the need for rotational crop studies.

Therefore, the registrant's request to add dry bulb onions and peanuts to their label as crops that can be rotated after harvest is supported by the tolerances that have been established. This support also includes garlic, which also has an established tolerance. However, the "crop" listed as Leafy Vegetables should be replaced by Head Lettuce, since only this leafy vegetable has an established tolerance. Other leafy vegetables that did not have a tolerance would require a confined rotational crop study.

The second line in the $\underline{\text{NOTE}}$ $\underline{\text{TO}}$ $\underline{\text{USER}}$ statement refers to rotating root crops, cereal grains, soybeans, and tomatoes one year after treatment. We cannot support these rotations. We have no rotational crop data on these crop groupings/crops, therefore, radiolabeled, confined rotational crop studies are required for them.

9. BACKG ROUND:

A. Introduction

The registrant is requesting the addition of potatoes to the Rovral label. A specimen label was submitted and some questions on rotational crop statements on it were addressed above (see RECOMMENDATION).

B. Directions for Use

Iprodione is a contact fungicide active on a broad spectrum of diseases including <u>Botrytis</u>, <u>Sclerotinia</u>, <u>Monilinia</u>, <u>Alternaria</u>, <u>Helminthosporium</u>,

11. COMPLETION OF ONE-LINER:

Not applicable.

12. CONFIDENTIAL APPENDIX:

There is no CBI.

FIN 5721-93

Aprodione EF Reviews
Page is not included in this copy. Pages through 13_ are not included.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
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