Date Out EFB: OCT 02 1980

FILE COPY

To: Product Manager 21 Wilson
TS-767

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

JCR for SC

Attached please find the environmental fate review of:

Reg./File No.: 359 - UEP-LO, OG2402

Chemical: Iprodione (Chipco 26019)

Type Product: Fungicide

Product Name: Rovral

Company Name: Rhone - poulenc

Submission Purpose: Request for EUP on almonds

ZBB Code: Sect. 5 ACTION CODE: 725, 220

Date in: 9/10/80 EFB # 611, 612

Date Completed:

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

1.0 Introduction

1.1 Purpose: Rhone - Poulenc Company is requesting a two years EUP allowing the 1981 and 82 field testing of Iprodione, commonly known as Rovral, for control of brown rot in/on Almonds (File No. 359-EUP-LO; PP OG2402, submitted on 8/25/80. Iprodione is currently under testing on stone fruits (359-EUP-58). Iprodione is chemically identical to chipco 26019, a fungicide, currently registered for disease control in turf (Re. No. 359-685).

Proposed maximum dosage on Almonds is 0.5 lb. ai/A/y. Proposed maximum dosage on stone fruits is 2.0 lbs. ai/A. Maximum registered dosage in turf is 5.4 lbs. ai/A.

1.2 Previous Reviews:

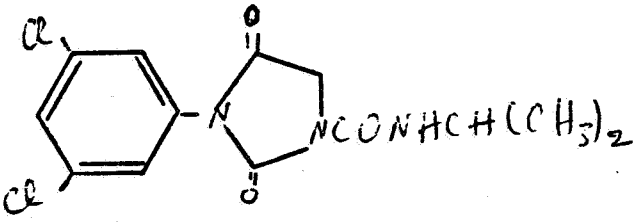
359 - AIL on 10/16/78 for registration on turf.
359 - EUP-58 on 8/15/78; EUP on stone fruits.

1.3 Chemical

Common name: Iprodione
Trade name: Rovral

Other names: Glycophene 26019, RP26019, Chipco 26019
Chemical name: 3(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide-50% WP

Chemical structure:



Molecular formula: C_{13} H_{13} Cl_2 N_3 O_3
Molecular weight: 330.17
Physical and chemical properties:

melting point	136 °C
appearance	off-white powder
odor	odorless
solubility in H_2 at 20 °C	0.013 g/l
density	1.4 g/cc
vapor pressure	$<1.0 \times 10^{5}$mm 20 °C

2.0 Proposed Program

Iprodione is to be applied by ground equipment and aircraft to established almonds. Target pest is brown rot (Monilinia sp.). Application is to be broadcast at 0.25 lb. ai/A in 100-400 gallons of water, or 20 gpa by aircraft. The experimental design includes split application, once at the red tip stage and the second at full bloom. For this, the company is requesting 92 lbs. of Iprodione (46 lbs. ai) for experimental use only on 6 acres in 1981 and on 10 acres in 1982, all of which within the state of California.

3.0 Discussion of Data

Accession Nos. # 099567 and 099568, File No. 359 - EUP-LO, PP OG 2402, on 8/26/80. The first volume (Acc. # 099567) contained a summary of all EC data, previously submitted in support of Chipco 26019 registration. The second volume (Acc. # 099568) contained Toxicology data. According to Mr. David Olson, a company representative, no new data were submitted with this EUP [phone communication [201/297-0100, on 9/18/80].

3.1 Data Requirements to Support EUP

(a) Hydrolysis
(b) Aerobic soil metabolism

3.2 Data Requirements to Support Registration

With the exception of data requirements in support of an EUP, the remainder of the data are:

(a) Photodegradation (water and soil).
(b) Effects of microorganisms on the pesticide.
(c) Effects of the pesticide on microogranisms.
(d) Leaching and aged leaching.
(e) Adsorption/desorption.
(f) Field dissipation.
(g) Fish accumulation.

3.3 Data in File

With the exception of adsorption/desorption study, all data requirements including those for the EUP were previously submitted and reviewed in support of Chipco 26019 (Iprodione) registration. The data were acceptable.

Because the registered dosage of Iprodione is 11 x the proposed EUP dosage, the low acreage, and because use patterns in both are similar, data in file were considered adequate for the permit. (A summary of Iprodione metabolites identified in the environment was added to EFB Files).

4.0 Conclusions

This EUP is acceptable. Rhone - Poulenc Company intends to experiment with 46 lbs. ai of Iprodione for brown rot control in Almonds. Use will be at 0.5 lb. ai/A by ground and aerial equipment. Tests will be on a small scale in the state of California, Comprising 6 acres in 1981 and 10 acres in 1982.

5.0 Note to PM

(1) To satisfy all data requirements for registrations, the company must submit adsorption/desorption study according to Section 163. 62-9 (d) of the guidelines, published in the Federal Register Vol. 43 (132) - Monday, July 10, 1978.

(2) Several labeling deficiencies were noticed such as product formulatiion, geographical restrictions, timing at application, dosage rate on a per acre basis and not spray volume, intervals in days between applications, and maximum amount to be applied per acre in one year. These deficiencies must be clarified prior to registration.

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