

US EPA ARCHIVE DOCUMENT

Letter
IPRO90DA.LTR
7/15/92

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Out of EFGWB: MAY 20 1992

TO: Barbara Briscoe/Kathryn Davis
Product Manager Team #51
Re-Registration Division (H7508W)
Office of Pesticide Programs/EPA

FROM: Emil Regelman, Supervisory Chemist
Environmental Chemistry Review Section #2
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Environmental Fate and Effects Division (H7507C)
Office of Pesticide Programs/EPA

THROUGH: Henry Jacoby, Chief
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Environmental Fate and Effects Division (H7507C)
Office of Pesticide Programs/EPA

Attached, please find the EFGWB review of...

Reg./File # : 109801-000264

Common Name : Iprodione

Product Name : Rovral

Type Product : Systemic fungicide

Company Name : Rhône-Poulenc Agricultural Company

Purpose : Waiver requests for Photodegradation in Air (161-4),
Laboratory Volatility (163-2) and Field Volatility (163-3).

Action Code: 604 EFGWB #(s): 92-0655 Review Time: 0.1 day

EFGWB Guideline/MRID/Status Summary Table: The review in this package contains...

161-1		162-4		164-4		166-1	
161-2		163-1		164-5		166-2	
161-3		163-2	Waiver Request	Y	165-1	166-3	
161-4	Waiver Request	Y	163-3	Waiver Request	Y	165-2	167-1
162-1		164-1		165-3		167-2	
162-2		164-2		165-4		201-1	
162-3		164-3		165-5		202-1	

Y = Acceptable (Study satisfied the Guideline)/Concur P = Partial (Study partially satisfied the Guideline, but additional information is still needed)
S = Supplemental (Study provided useful information, but Guideline was not satisfied) N = Unacceptable (Study was rejected)/Non-Concur

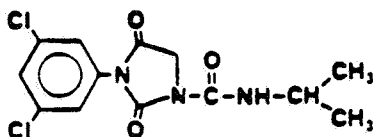
1. CHEMICAL:

Common Name: Iprodione

Chemical Name: 3-(3,5-Dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide or 3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide

Trade Name(s): Rovral, RP 26019, Glycophene, Chipco 26019, LFA 2043, NCR 910, ROP 500 F.

Structure:



Molecular Formula: C₁₃H₁₃Cl₂N₃O₃

Molecular Weight: 330.2 g/mol

Physical/Chemical Properties of the Active Ingredient:

Physical state: White, odorless, non-hygroscopic crystals.
Solubility (20 °C): 13 mg/L water; 200 g/L benzene; 300 g/L, acetone, acetophenone, anisole; 500 g/L, methylene chloride, dimethylformamide, 1-methyl-2-pyrrolidone; 25 g/L ethanol, methanol.
Melting point: ca 136 °C.
Vapor pressure (20 °C): 1.0×10^{-5} mm Hg (<math>< 0.133</math> mPa)
Formulations: Wettable powder, flowable concentrate.

2. TEST MATERIAL:

Not applicable; no studies were submitted for review.

3. STUDY/ACTION TYPE:

Waiver requests for Photodegradation in Air (161-4), Laboratory Volatility (163-2) and Field Volatility (163-3).

4. STUDY IDENTIFICATION:

Not applicable; no studies were submitted for review.

5. REVIEWED BY:

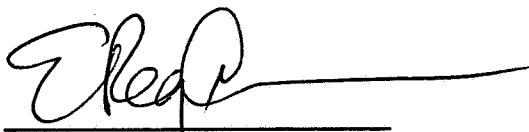
María Isabel Rodríguez
Chemist
Section #2/EFGWB/EFED/OPP/EPA

Signature: María Isabel Rodríguez
Date: May 13, 1992.

6. APPROVED BY:

Emil Regelman
Supervisory Chemist
Section #2/EFGWB/EFED/OPP/EPA

Signature: _____



Date: _____

MAY 20 1992

7. CONCLUSIONS:

The registrant reported the following information for iprodione:

- * Vapor pressure at 25 °C: $<1 \times 10^{-7}$ torr
- * Acute inhalation toxicity: $>3,290$ mg/m³
- * Acute oral LD₅₀ (rat): 4,400 mg/kg
- * Acute dermal LD₅₀ (rabbit): 2000 mg/kg
- * High soil adsorption

in order to support their waiver requests.

The submitted information agrees with previously reported values.

8. RECOMMENDATIONS:

The registrant should be informed that Photodegradation in Air (161-4), Laboratory Volatility (163-2) and Field Volatility (163-3) are to be held in reserve pending further results of iprodione studies/findings.

9. BACKGROUND:

Iprodione is a contact fungicide active against a broad spectrum of diseases including Botrytis, Sclerotinia, Monilinia, Alternaria, Helminthosporium, Fusarium, and Rhizoctonia. Iprodione is registered for the following use patterns: terrestrial food/feed/non-food, outdoor residential, aquatic food, and greenhouse non-food uses. The maximum application rates are 4.0 lb ai/A on field and vegetable crops and 2.0 lb ai/A on orchard crops.

The registrant is requesting data waivers for Photodegradation in Air (161-4), Laboratory Volatility (163-2) and Field Volatility (163-3)

An environmental-fate summary table for iprodione is attached to this review.

10. DISCUSSION OF INDIVIDUAL STUDIES:

Not applicable; no studies were submitted for review.

11. COMPLETION OF ONE-LINER:

The One-liner database file for iprodione was last updated on May 12, 1992.

12. CBI APPENDIX:

Information submitted is not considered "confidential business information" by the registrant.

ENVIRONMENTAL-FATE SUMMARY TABLE FOR IPRDIONE:

Data Requirements and Guidelines Reference #	Submitted Studies/ Addendums	DER ¹ /Addendum Review/Summary Identification	DER/Addendum Review/Summary Review Conclusions	Additional Data Required?
1. DEGRADATION -- LAB:				
161-1: Hydrolysis	418854-01	EFGWB #91-0712 (12/8/91)	Acceptable	No
161-2: Photodegradation in Water	418619-01	EFGWB #91-0712 (12/8/91)	Not acceptable	Yes
161-3: Photodegradation on Soil	419121-01	EFGWB #91-0719 (12/24/91)	Not acceptable	Yes
161-4: Photodegradation in Air	N/A	N/A	N/A	Reserved ²
2. METABOLISM -- LAB:				
162-1: Aerobic Soil	000682-85	No DER Sum ³ (92083-022)	N/A Not Reviewable	Yes ⁴
162-2: Anaerobic Soil	N/A	N/A	N/A	Waived ⁵
162-3: Anaerobic Aquatic	417558-01	EFGWB #91-0399 (Concurrently undergoing review)	Not acceptable	Yes ⁶
162-4: Aerobic Aquatic	419276-01	EFGWB #91-0725/0726 (12/8/91)	Not acceptable	Yes ⁶

Data Requirements and Guidelines Reference #	Submitted Studies/ Addendums	DER ¹ /Addendum Review/Summary Identification	DER/Addendum Review/Summary Review Conclusions	Additional Data Required?
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3. MOBILITY:

163-1: Leaching and adsorption/desorption	N/A	N/A	N/A	Yes
163-2: Laboratory Volatility	N/A	N/A	N/A	Reserved ²
163-3: Field Volatility	N/A	N/A	N/A	Reserved ²

4. DISSIPATION -- FIELD:

164-1: Soil	N/A	N/A	N/A	Yes
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164-2: Aquatic (sediment)	001622-18	DER (SIR) ⁷ Sum (92083-023)	SIR Reviewable	SIR ⁶
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5. ACCUMULATION:

165-1: Confined Rotational Crops	N/A	N/A	N/A	Yes
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165-3: Irrigated Crops	001622-18	DER (SIR) Sum (92083-023)	SIR Reviewable	SIR
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165-4: In Fish	001622-21	No DER Sum (92083-024)	N/A Not Reviewable ⁸	Yes
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	001622-22	No Sum (92083-024)	N/A Not Reviewable ⁸	
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6. GROUND WATER MONITORING:

166-1: Small Scale Prospective	N/A	N/A	N/A	Reserved ⁹
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I PRODIONE...

Data Requirements and Guidelines Reference #	Submitted Studies/ Addendums	DER ¹ /Addendum Review/Summary Identification	DER/Addendum Review/Summary Review Conclusions	Additional Data Required?
166-2: Small Scale Retrospective	N/A	N/A	N/A	Reserved ⁹
166-3: Large Scale Retrospective	N/A	N/A	N/A	Reserved ⁹
7. <u>SURFACE WATER:</u>				
167-1: Field Runoff	N/A	N/A	N/A	Reserved ⁹
167-2: Surface Water Monitoring	N/A	N/A	N/A	Reserved ⁹
8. <u>SPRAY DRIFT:</u>				
201-1: Droplet Size Spectrum	N/A	N/A	N/A	Yes
202-1: Drift Field Evaluation	N/A	N/A	N/A	Yes

- 1 DER = Data Evaluation Record
- 2 For details please refer to EFGWB Review #92-0655 being performed concurrently with this one.
- 3 Sum = Summary
- 4 The study, dated 8/8/1977, was conducted following the 1975 EPA Proposed Guidelines. The study was conducted using foreign soils not compared to United States soils, was not conducted at 25 °C, and experiments were not conducted with each labelled ring. Therefore, a new study following the new Guidelines should be submitted.
- 5 Since the Anaerobic Aquatic Metabolism data requirement has not been fulfilled, the Anaerobic Soil Metabolism (162-2) data requirement, which had been previously waived, may still apply.
- 6 Study being repeated as per terms of conditional registration on rice.
- 7 SIR = Study in Review
- 8 The experiments should be conducted with each respectively labelled ring.
- 9 The requirement is to be held in reserve pending results of the Field Dissipation (164-1) study.