US ERA ARCHIVE DOCUMENT

DP Barcode: 184061 Shaughnessy No.: 109801

Date Out of EFGWB:

		,	-		
TO:	Barbara	Briscoe.	Chemical	Review	Manager

Accelerated Reregistration Branch

Special Review and Registration Division (H7508W)

FROM:

Emil Regelman, Supervisory Chemist

Environmental Fate and Ground Water Branch

Environmental Fate and Effects Division WH7;

THROUGH:

Henry Jacoby, Chief

Environmental Fate and Groundwater Branch

Environmental Fate and Effects Division (H7507C)

Attached,	please	find	the	EFGWB	review	of:
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Reg./File #(s)	:109801-264
Common Name	:Iprodione
Chemical Name	: 3-(3,5-Dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-
	imidazolidinecarboxyamide
Product Type	:Fungicide
Product Name	: Glycophene, Rovral 4F, RP 26019, Chipco 26019, others
Company Name	: Rhone-Poulenc Agricultural Company
Purpose	: Review of response to previous Aerobic Aquatic Metabolism study.
Action Code:	627 EFGWB #(s): 93- 0088

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

	The terror in this parameter contains.							
161-1	162-4 42503801	Y 164-4	166-1					
161-2	163-1	164-5	166-2					
161-3	163-2	165-1	166-3					
161-4	163-3	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.

CAS No.:

36734-19-7

Trade name(s):

Chipco 26019, Kidan, Rovral, RP-26019.

Structure:

Formulations:

Wettable powder, flowable concentrate.

Physical/Chemical properties:

Molecular formula: C₁₃H₁₃Cl₂N₃O₃
Molecular weight: 330.2 g/mole

Physical state: White, odorless, nonhygroscopic crystals

Melting point: c. 136°C

Vapor pressure (20°C): <0.133 mPa (<9.98x10⁻⁷ torr)

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

2. TEST MATERIAL:

Refer to attached Data Evaluation Record (DER) for details.

3. STUDY/ACTION TYPE:

Review of response to a previous Aerobic Aquatic Metabolism study.

4. STUDY IDENTIFICATION:

Spare, W. C. 1992. Aerobic Aquatic Metabolism of Iprodione. Addendum to MRID# 41927601. Laboratory project ID: Supplement No. 1, Agrisearch Project No. 1514. Unpublished study performed by Agrisearch Incorporated, MD, and submitted by Rhone-Poulenc AG Company, Research Triangle Park, NC (MRID# 42503801)

5. REVIEWED BY:

José Luis Meléndez Chemist EFGWB/EFED/OPP Review Section #2

6. APPROVED BY:

Emil Regelman Chief EFGWB/EFED/OPP Review Section #2 signature: José Lecis Melénde

Date: <u>Jan. 25, 1993</u>

Signature:

Date: 2/8/93

7. CONCLUSIONS:

Aerobic Aquatic Metabolism Study (MRID# 41927601 and 42503801)

This study and supplement are acceptable and can be used to fulfill the Aerobic Aquatic Metabolism data requirement.

Iprodione degraded with an observed half-life of 3-7 days (registrant calculated 9 days) in a flooded silt loam sediment system that was incubated in the dark at 25°C. The major non volatile degradate was

1-(3,5-dichlorophenyl)carbamoyl-3-isopropyl hydantoin (RP-30228).

Other non volatile degradates were
1-(3,5-dichlorophenyl)-3-carbamoyl hydantoin (RP-32490),
1-(3,5-dichlorophenyl)-5-isopropyl biuret (RP-36221),
3,5-dichloroaniline (RP-32596)
N-(dichloro-3,5-phenyl)(isopropyl-3-ureido)-2-acetamide (RP-37176), and
(dichloro-3,5-hydroxy-4-phenyl)-1-biuret (RP-36114)

8. RECOMMENDATIONS:

Inform the registrant that the Aerobic Aquatic Metabolism study and supplement (MRID #'s 42503801, and 41927601) are acceptable and fulfill the data requirement. No additional data are required.

9. BACKGROUND:

Iprodione is a contact fungicide active against a broad spectrum of diseases including <u>Cyliadrocladrim</u>, <u>Botrytis</u>, <u>Sclerotinia</u>, <u>Septoria</u>, <u>Monilinia</u>, <u>Alternaria</u>, <u>Helminthosporium</u>, <u>Fusarium</u>, and <u>Rhizoctonia</u>. Iprodione is registered for the following use patterns: terrestrial food/feed/non-food, outdoor residential, aquatic food, and greenhouse non-food. It is used on vegetable (lettuce, broccoli, carrots, onions, garlic, beans, peanuts, potatoes, caneberries, and ginseng), orchard (grapes, berries, stone fruits, and almonds), cereal, ornamental, and turf crops. Single active ingredient formulations include wettable powder and flowable concentrate. The maximum application rates are 4.0 lb ai/A on field and vegetable crops, and 2.0 lb ai/A on orchard crops.

EFGWB recieved one data package, containing a response to a previous Aerobic Aquatic Metabolism study.

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

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

Refer to attached DER.

11. COMPLETION OF ONE-LINER:

The One-Liner database file for iprodione was updated with this review.

12. CBI APPENDIX:

All data reviewed here are considered "company confidential" by the registrant and must be treated as such.

rev36 jlm

ENVIRONMENTAL FATE SUMMARY TABLE FOR IPRODIONE

	Requirements and Lines Reference	Use Patterns	Does EPA have data to satisfy this data requirement ?	Bibliogra- phic Citation	Additional Data Required?
	lation - Lab.:				
161-1	Hydrolysis	A,B,C,D, I,K	Yes	41885401	No ²
161-2	Photolysis in Water	A,B,C,D	Yes	41861901	No ³
161-3	Photolysis in Soil	A,B,C	No		Yes ⁴
161-4	Photodegradation in Air	A,B,C,I,	No		Waived ⁵
Metabo Lab.	olism Studies -			•	
162-1	Aerobic Soil Metabolism	A,B,C,D, I,K	No		Yès ⁶
162-2	Anaerobic Soil Metabolism	A,B,C	No		Yes ⁷
162-3	Anaerobic Aquatic Metabolism	A,B,C,D	No		Yes ⁸
162-4	Aerobic Aquatic Metabolism	A,B,C,D	Yes	44927601, 42503801	No ⁹
Mobili	ty Studies - Lab.				
163-1	Mobility in Soil	A,B,C,D I,K	No		Yes ¹⁰
163-2	Volatility from Soil (Lab.)	A,B,I	No		Waived ⁵
163-3	Volatility from Soil (Field)	A,B,I	Ио		Waived ⁵
Field Studie	Dissipation es		•		•
164-1	Terrestrial	A,B,C,D, K	Yes	41877401	Supplemental
164-2	Aquatic/Sediment	A,B,C,D	No		Yes ¹²
164-3	Forestry	N/A	N/A	N/A	N/A ¹³
164-4	Combination/Tank Mixes	N/A	N/A	N/A	N/A ¹³
164-5	Terrestrial (Long Term)	A,B,C,D, K	ИО	•	Reserved ¹⁴

	Requirements and ines Reference	Use Patterns	Does EPA have data to satisfy this data requirement ?	Bibliogra- phic Citation	Additional Data Required?
Accumu	lation Studies				
165-1	In Confined Rotational Crops	A,B,C,D	No	•	Yes ¹⁵
165-2	In Field Rotational Crops	A,B,C,D	No		Reserved ¹⁶
165-3	In Irrigated Crops	מ	No		Yes ¹⁷
165-4	In Fish	A,B,C,D	No		Yes ¹⁸
165-5	In Aquatic, Non-target Organisms	A,B,C,D	No	• w	Reserved ¹⁹
<u>Other</u>					
Wat	-2/-3 Ground er Monitoring dies	A,B,C	No		No ²⁰
off Wat	-2 Run- /Surface er Monitoring dies	A,B,C,D, K	No		No ²⁰

Footnotes:

- 2. Iprodione hydrolyzed with half-lives of 131 days, 4.7 days, and 27 minutes in sterile aqueous buffered solutions at pH's of 5, 7, and 9, respectively (EFGWB 91-0712).
- 3. Iprodione photodegraded with a calculated half life of 67 Florida equivalent days (EFGWB# 92-1148).
- 4. Previous study found not acceptable (MRID# 41912101, EFGWB# 91-0719). A new study is required.
- 5. Photodegradation in air (161-4) and laboratory volatility studies (163-2) are required if the vapor pressure of the technical grade active ingredient is greater than 10⁻⁴torr. The vapor pressure for iprodione is <9.98×10⁻⁷torr, therefore, studies are not required.
- 6. Previous study found not reviewable (MRID# 00068285, Summary 92083022).

 A new study is required.
- 7. An Anaerobic Aquatic Metabolism (162-3) study may be used to satify this data requirement.

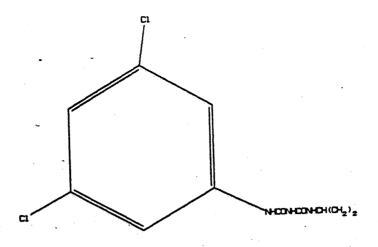
- 8. Previous study found not acceptable (MRID# 41755801, EFGWB# 91-0399, 5/13/92). A new study is required.
- 9. Iprodione degraded with an observed half life of 3-7 days in a flooded silt loam sediment system. The major degradate was RP-30228. Five minor non-volatile degradates were identified.
- 10. Previous studies found not acceptable (MRID#'s 41878801 and 41889601, EFGWB# 92-1148). New aged and unaged studies are required.
- 11. The information provided by previous study is supplemental. Iprodione dissipated with half-lives of about 7 days, and < 3 days in the 9-15 cm depth in soils of California and North Carolina. The main degradates are RP-30228 and RP-32490 (EFGWB# 92-1148). Decision of the adequacy of this study will be deferred until the registrant submits adequate metabolism studies.
- 12. Previous study found not acceptable (MRID# 00162218, EFGWB# 92-1148). A new study is being conducted as part of the conditional registration on rice.
- 13. N/A = Not Applicable
- 14. EFGWB does not concur with a request for a waiver for the Long Term Field Dissipation (164-5) data requirement at this time. The data requirement will remain reserved until the Field Dissipation Study is validated.
- 15. Previous study found not acceptable (MRID# 41247101, EFGWB# 90-0373). A new study is required.
- 16. Field Rotational Crop studies (165-2) are required on a case by case-bycase basis as determined by the results of the Confined Rotational Crop
 study (165-1). In lieu of this study, the registrant may request
 rotational crop tolerances for all crops to be rotated which could
 conceivably contain residues of concern.
- 17. Previous study found not acceptable at this time (EFGWB# 92-1148, MRID# 00162218). The study may be made acceptable by the submission of additional data.
- 18. Previous studies found not reviewable (MRID#'s 00162221 00162222, Summary 92083024). A new study is required.
- 19. Reserved pending results of Accumulation in Fish (165-4) studies.
- 20. The Soil Field Dissipation studies indicate that iprodione is not persistant nor highly mobile, therefore, the Groundwater and the Runoff/Surface monitoring studies are not required.

CHEMICAL STRUCTURES

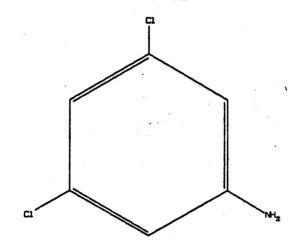
Iprodione

1-(3,5-dichlorophenyl)carbamoyl-3-isopropyl hydantoin RP-30228

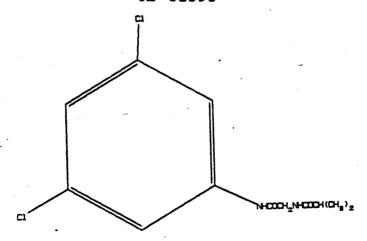
1-(3,5-dichlorophenyl)-3-carbamoyl hydantoin RP-32490



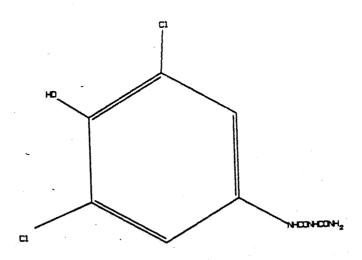
1-(3,5-dichlorophenyl)-5-isopropyl biuret RP-36221



3,5-dicloroaniline RP-32596



N-(dicloro-3,5-phenyl)(isopropyl-3-ureido)-2-acetamide RP-37176



(dichloro-3,5-hydroxy-4-phenyl)-1-biuret RP-36114

Data Evaluation Record

Study 1

CHEM 109801

IPRODIONE

S 164-2

Study ID 42503801

Spare, W. C. 1992. Aerobic Aquatic Metabolism of Iprodione. Addendum to MRID# 41927601. Laboratory project ID: Supplement No. 1, Agrisearch Project No. 1514. Unpublished study performed by Agrisearch Incorporated, MD, and submitted by Rhone-Poulenc AG Company, Research Triangle Park, NC (MRID# 42503801)

Reviewed By: José Luis Meléndez

> Title: Chemist

Org.: OPP/EFED/EFGWB/Section #2

Date: Jan. 25, 1993

CONCLUSIONS:

Aerobic Aquatic Metabolism

This study and supplement are acceptable and can be used to fulfill the Aerobic Aquatic Metabolism data requirement.

Iprodione degraded with an observed half-life of 3-7 days (registrant calculated 9 days) in a flooded silt loam sediment system that was incubated in the dark at 25°C. The major non volatile degradate was

1-(3,5-dichlorophenyl)carbamoyl-3-isopropyl hydantoin (RP-30228) with 64.0-64.6% of the applied at 14 days posttreatment.

Other non volatile degradates were

1-(3,5-dichlorophenyl)-3-carbamoyl hydantoin (RP-32490),

1-(3,5-dichlorophenyl)-5-isopropyl biuret (RP-36221),

3,5-dichloroaniline (RP-32596)

N-(dichloro-3,5-phenyl)(isopropyl-3-ureido)-2-acetamide (RP-

37176), and

(dichloro-3,5-hydroxy-4-phenyl)-1-biuret (RP-36114).

METHODOLOGY:

Fourteen solutions of reference standards were prepared by dissolving approximately 10 mg of each standard in 1 mL acetone. These standards were kept in a freezer at about -20°C when not used. All standards were analyzed using one and two dimensional TLC in 0.25 mm silica gel glass plates. The sediment extract samples of the original study were stored between -15 and -26°C. These samples were also tested for TLC identification.

The plates, developed in two dimensions, were first eluted with toluene/ethyl acetate (9:1, V:V), rotated 90° and then eluted with dichloromethane/ethyl acetate/formic acid (85:15:5, V:V:V). Nonradioactive standards were visualized by UV at 254 nm. All radioactive areas were quantified with a radioanalytical scanner. The day 30 sediment sample TLC analysis was compared to the original analysis to confirm stability of the samples.

Radioactive material remaining in the origin was chromatographed in butanol/acetic acid/water (85:10:14, V:V:V) and cochromatographed with RP-36114.

DATA SUMMARY:

Based on the results, the following identifications were made:

Unknown	% of applied	conc./ppm	Identification
unk. #9	11.5	0.93	RP-32596
unk. #10	1.7	0.14	RP-37176
residues at the origin	8.9	0.72	RP-36114

Unknown #6 matched no reference standard. It comprised a maximum of 1.8% of the applied (0.16ppm) at day 1.

Storage stability data of the samples in the supplemental report show slight changes in the concentrations of RP-30228, unknown #9 (RP-32596), and origin (RP-36114). These changes do not affect the identification of the products.

COMMENTS:

The following are comments from the original DER and responses offered by the registrant. EFGWB considers all of these problems resolved by the submission of this addendum.

1. The test water was not completely characterized; the dissolved oxygen content of the rice paddy water was not determined.

Registrant's response: During shipment, the mixing of the water with the air headspace would insure air saturation of the water. The microbial population counts indicate viable aerobic populations.

2. It was reported that "bulk" incubations were conducted to produce sufficient material for degradates identification. Two samples (100 g equivalent weight) of silt loam sediment were flooded with 200 mL of [14C] iprodione treated (8.12 ppm) water and incubated as described above for the nonsterile soil: water systems. However, it was not reported at what sampling interval the bulk incubations were collected, and quantitative data concerning the bulk incubations were not reported.

Registrant's response: These samples were incubated for 30 days, flooded with 75 mL of extracting solvent (acetone/methanol/water/hydrochloric acid, 50:40:10:0.2, V:V:V), and stored at about -20°C. The samples were not analyzed.

- 3. In a hydrolysis study (MRID# 41885401), the degradate 3-isopropylcarbamoyl)-S-(3,5-dichlorophenyl)hydantoin (RP-35606) was detected at a maximum of 10.8-11.9% of the applied at 30 days posttreatment in pH 5 solutions and 9.8-10.4% at 40.4 hours in pH 7 solutions. Apparently, RP-35606 was not analyzed for in this study, since a reference standard was not received for TLC cochromatography.

 Registrant's response: The standard RP-35606 was cochromatographed with the samples. In the Aerobic Aquatic Metabolism study, RP-35606 was not observed.
- 4. A storage stability study was conducted by analyzing the time 0 water extracts for parent iprodione after 0, 11, 20, and 31 days of frozen storage. The data indicate that the extracted iprodione was stable under the storage conditions up to 31 days. It was not reported how long the study sample extracts were stored prior to analysis.

 Registrant's response: The study records indicate that all extracts were stored for no longer than 6 days prior to TLC analysis.

DER37 jlm

FIN 5721-93

Iprodione EF Reviews						
Page is not included in this copy. Pages _/5_ through _/9_ 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.						
FIFRA registration data.						
The document is a duplicate of page(s)						
The document is not responsive to the request.						
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.						

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE Last Update on January 26, 1993 [V] = Validated Study [S] = Supplemental Study [U] = USDA Data LOGOUT Reviewer: Section Head: Date: Common Name: IPRODIONE Smiles Code: PC Code # :109801 CAS #:36734-19-7 Caswell #: Chem. Name: 3-(3,5-Dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide Action Type: FUNGICIDE Trade Names: GLYCOPHENE; ROVRAL 4F; RP 26019; CHIPCO 26019; others. (Formul'tn):50% WP or FC; Granular Physical State: Non-hygroscopic crystals :Terrestrial food/feed/non-food, outdoor residential, aquatic Patterns : food, and greenhouse non-food. (% Usage) : Vegetables (lettuce, broccoli, carrots, onions, & others), :orchard (apricots, almonds, peaches, & others). C₁₃H₁₃Cl₂N₃O₃ 330.15 Empirical Form: Molecular Wgt.: Vapor Pressure: 1.00E -7 Torr ca. 136 oC°C °C Melting Point: Boiling Point: Log Kow 3.1 °C pKa: Henry's E Atm. M3/Mol (Measured) 3.34E -9 (calc'd) Solubility in ... Comments @20.0 °C 13.00E Water ppm @20.0 °C Acetone 3.00E 2 ppm Acetonitrile °C E ppm 2 Benzene 2.00E @20.0 °C ppm Chloroform E °C ppm Ethanol 2.50E 4 ppm @20.0 °C ppm Methanol 2.50E €20.0 °C Toluene °C E ppm Xylene E °C ppm 5.00E 5 @20.0 °C Methylene chloride ppm Dimethylformamide 5 @20.0 °C 5.00E ppm Hydrolysis (161-1) [V] pH 5.0:131 DAYS [V] pH 7.0:4.7 DAYS [V] pH 9.0:1 DAY (For 1991 study: 27 MINUTES)

PAGE: 1 _____

[V] pH

рН

pН

3.0:STABLE

6.0:20 DAYS

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE

Last Update on January 26, 1993
[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

	olysis (161-2, -3, -4) Water:3-7 DAYS				
įvj []	:For 1991 study:	67 DAYS, pH 5/22 (2 % acetone sens	days sitized)		
	Soil :7-14 DAYS ON CLL Air :	m ([] 1991 study	: 182 DAYS	on Sandy	loam)
[8]	oic Soil Metabolism (16 20-70 DAYS, Clim AND 50-70 DAYS Clim 30-50 DAYS SICILM				
Anaer [S]	obic Soil Metabolism (20-50 DAYS Cllm 50 DAYS SlCllm	162-2)			
Anaer [S]	obic Aquatic Metabolis 6.4 DAYS IN WATER AND		SEDIMENT.		. *
֓֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֜֜֜֜֜	For 1991 study (MRID ; Silm sediment (d		#91-0399):	7-14 da	ys in
Aerok [S]	oic Aquatic Metabolism DEGRADATE RP-30228 COI IMMEDIATELY POST-TREA	MPRISED UP TO 50%	OF THE TOTA	AL RESIDU	E .
[v] [] []	For 1991 study: 3-7 l The major degradate was degradates.				minor
	•				
		PAGE: 2			

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE Last Update on January 26, 1993

[V]	= Validated	Study	[s] =	= Supplemental	Study	[ט]	=	USDA	Data

Soil [] []	Partition Coefficient (Kd) (163-1)
Soil [V] [] [] []	Rf Factors (163-1) IN SOIL COLUMN STUDIES, WITH Lm MUD, SdLm, ClLm, AND SiCLLm, MOS OF THE ACTIVITY WAS IN THE UPPER 10 CM; IN LEACHATE, 2% FROM SiCLLm, LESS THAN 1% FROM OTHERS.
Labo	ratory Volatility (163-2)
Field [] []	Volatility (163-3)
	WITH SAMPLING AT 0-2, 2-4, AND 4-6". T1/2 VALUES WERE: - NORTHEASTERN 15-45 DAYS; SOUTHEASTERN 8-30 DAYS; - SOUTHWEST 15-90 DAYS; MIDWEST 40-50 DAYS California: 7 days in the 0-15 cm, degradate is RP-30228, and
[s] [s]	32490, no parent or degradate below 30 cm. North Carolina: 0.35 days, degradate RP-30228 was not detected below 15 cm.
Aquat [] [] [] []	cic Dissipation (164-2)
Fores	stry Dissipation (164-3)
	PACE• 3

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE

[V] = Validated Study

Last Update on January 26, 1993

[S] = Supplemental Study

[U] = USDA Data

Long-Term Soil Dissipation (164-5) Accumulation in Rotational Crops, Confined (165-1) Accumulation in Rotational Crops, Field (165-2) [S] AFTER MAX. USE RATE APPL., DETECTABLE RESIDUES FOUND IN SORGHUM. [] CORN, SOYBEANS, WHEAT, AND PEAS. Accumulation in Irrigated Crops (165-3) [S] Not detected (<0.05 ppm) in sorghum, soybeans, sweet potatoes. Bioaccumulation in Fish (165-4) [S] BLUEGILL EDIBLE: 102X, VISCERA 555X, WHOLE 180X.
[S] CATFISH EDIBLE: < 50X, VISCERA 500X, WHOLE < 50X. Bioaccumulation in Non-Target Organisms (165-5) [S] EC 50, 96 HR DATA: TROUT, 4.2 PPM, OYSTER, 2.3; DAPHNIA < 0.33, BLUEGILL 8.6. Ground Water Monitoring, Prospective (166-1) Ground Water Monitoring, Small Scale Retrospective (166-2) Ground Water Monitoring, Large Scale Retrospective (166-3)

PAGE: 4

Ground Water Monitoring, Miscellaneous Data (158.75)

2

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE Last Update on January 26,

		Last	opuace	On Danuary 2	O, IJJJ		
[V]	= Validated	Study	[s] =	Supplemental	Study	[U] =	USDA Data

Field Runoff (167-1) [] [] [] []	•
Surface Water Monitoring (167-2) [] [] [] []	
<pre>Spray Drift, Droplet Spectrum (201-1) [] [] [] []</pre>	
Spray Drift, Field Evaluation (202-1) [] [] [] []	
Degradation Products	
-Dichloroaniline (see enclosure for others) -RP-30228 accounts for 71% of radioact. in sec anaerobic aquatic studypH and temperature have marked effect on pers	liment extracts in

PAGE: 5 =

Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY IPRODIONE

Last Update on January 26, 1993

[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

Comments

-List "B" chemical.
-Leaching-soil column study: Glycophene leached 10-15 cm in 30 cm column with 50 cm water in 30 hrs, using ImSd, SdIm, and ClIm. It leached 15-20 cm for SlClIm. Leaching is a potential problem only in soils of acidic pH and fine texture.
-Koc = 700.

PAGE: 6 =

References: REG STD and EFGWB Chemical File

Writer : PJH, MIR, JLM