US EPA ARCHIVE DOCUMENT

1-25-91

Norman J. Cook 01.24.91

ECOLOGICAL EFFECTS BRANCH
DATA REQUIREMENTS FOR PESTICIDE REGISTRATION

Reviewers Name: Curtis E. Laird
Telephone No.: 557-1636

DATE: 1-16-91

Required studies for (chemical name): Vinclozolin
Chemical No: 113201
Case No.: 02740

DATA REQUIREMENTS (not reserved)		DATA REQUIREMENT FULFILLED (Y/N)	MRIDs/DATES OF STUDIES REVIEWED
71-1(a)	Acute Avian Oral, Quail/Duck	Y	92194-002
71-1(b)	Acute Avian Oral, Quail/Duck (TEP)		
71-2(a)	Acute Avian Diet/Quail	N	92194-003 *
71-2(b)	Acute Avian Diet/Duck	Y	92194-003
71-3	Wild Mammal Toxicity		
71-4(a)	Avian Reproduction/Quail	N	92194-004
71-4(b)	Avian Reproduction/Duck	N	92194-005
71-4(c)	" " "	N (male fertility)	
71-5(a)	Simulated Terrestrial Field Study		92194-043 **
71-5(b)	Actual Terrestrial Field Study		
72-1(a)	Acute Fish Toxicity/Bluegill	Y	92194-006
72-1(b)	Acute Fish Toxicity/Bluegill (TEP)		
72-1(c)	Acute Fish Toxicity/Rainbow Trout	* N CEL.	92194-007
72-1(d)	Acute Fish Toxicity/Rainbow Trout (TEP)		
72-2(a)	Acute Aquatic Invertebrate Toxicity	Y	92194-008
72-2(b)	Acute Aquatic Invertebrate		

* A one page ~~DER~~ review (This study should be resubmitted for review)

** This study provided supplemental information

Toxicity (TEP)

72-3(a) Acute Estu/Mari Tox Fish

72-3(b) Acute Estu/Mari Tox Mollusk

72-3(c) Acute Estu/Mari Tox Shrimp

72-3(d) Acute Estu/Mari Tox Fish (TEP)

72-3(e) Acute Estu/Mari Tox Mollusk (TEP)

72-3(f) Acute Estu/Mari Tox Shrimp (TEP)

72-4(a) Early Life-Stage Fish

72-4(b) Life-Cycle Aquatic Invertebrate

72-5 Life-Cycle Fish

72-6 Aquatic Org. Accumulation

72-7(a) Simulated Aquatic Field Study

72-7(b) Actual Aquatic Field Study

122-1(a) Seed Germ./Seedling Emerg.

122-1(b) Vegetative Vigor

122-2 Aquatic Plant Growth N

123-1(a) Seed Germ./Seedling Emerg.

123-1(b) Vegetative Vigor

123-2 Aquatic Plant Growth

124-1 Terrestrial Field

124-2 Aquatic Field

141-1 Honey Bee Acute Contact Y 92194-023

141-2 Honey Bee Residue on Foliage

141-5 Field Test for Pollinators

ENVIRONMENTAL FATE AND EFFECTS DIVISION
ECOLOGICAL EFFECTS BRANCH

List B Phase 4 - Response on Existing Studies Reviewed

Chemical a.i.Name: Vinclozolin Case No.: 2740
Chemical No.: 113201

Reviewers Name: Curtis E. Laird
Phone No.: 557-1636
Date: 1-16-91

Use Pattern(s): Fungicide

Guideline No.:
Title:

MRIDs and Dates of Studies Reviewed:

92194-002	5-16-78				
92194-003 (Bobwhite)	5-15-78	92194-006	11-9-89	92194-043	3-2-90
92194-003 (Mallard)	5-15-78	92194-007	2-13-90		
92194-004	10-2-80	92194-008	4-28-78		
92194-005	10-2-80	92194-023	5-9-89 ; 92194-007	11-9-89 C	

MRIDs and Dates of Fully Acceptable Studies:

92194-002	5-16-78	92194-006	11-9-89
~~92194-003~~	~~5-15-78 (quail)~~	~~92194-007~~	~~2-13-90~~
92194-003	5-15-78 (mallard)	92194-008	4-28-78
92194-023	5-9-89	92194-023	5-9-89

Comments:

1) comments on study deficiencies by MRID number, including potential for upgrading and studies that together satisfy a data requirement; See attached sheet for comments

2) special instrucctions to the registrant concerning his conduct of a required study;

3) comments on the need to review a new study immediately because it is a tiered study (for EEB, all studies will need to be reviewed immediately; there are no holds for EEB studies);

4) responses to requests for time extensions, waivers, and other questions.

1. Avian Reproduction for Male Mallard was considered as supplemental because EEB's concerns were not addressed (NO 92194-043). As the available data indicate that vinclozolin is practically nontoxic to birds, this study does not have to be reviewed again. TLP 11/4/92

2. The bobwhite quail LC_{50} study was reviewed by EEB as Core in a previous EEB one page review. The way it was reviewed does not not meet the present format requirements. It is a possibility that this study is still Core (92194-003). This study needs to be reviewed again by EEB. Registrant should not be required to repeat the study. Study is under review. JWA 1/25/91

3. Both of the avian reproduction studies (bobwhite quail and mallard duck) were found to be supplemental due the % egg shell cracked, etc (92194-004 and 92194-005, respectively).

JWA 1/25/91

EEB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

VINCLOZOLIN

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

Date: 11/6/90

MEMORANDUM

SUBJECT: LUIS Reports
for 3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione (9CA)
Pesticide Chemical Code: 113201
Case Number: 2740

TO: Addresses: (See below)

FROM: Phyllis Johnson, BAB
Biological and Economic Analysis Division (H7503C)

Attached is a packages of LUIS for chemical Vinclozolin. Coordinators for the science branches will receive a package for their own files and a package clearly labeled for distribution to each science branch. A table of contents for the packages appears in matrix form on the next page. We will not include reports where LUIS contains no information for a particular chemical, there will be no Toxicology Diluent Report).

The reports have been developed by representatives from your disciplines to support science reviews for Phase IV Review. If you have any questions concerning the data or if you have any suggestions concerning more useful ways to present the data, please direct them to either Gabe Patrick (308-8124) or Steve Jarboe, (308-8114), Biological Analysis Branch, Biological and Economic Analysis Division.

ADDRESSES:

Jay Ellenberger, Chief, SRRD, (H7508C)

Esther Saito, SACS Coordinator, HED, (H7509C)

William Evans, SACS Coordinator, EFED, (H7507C)

cc: Memorandum only

Angela Nugent, SRRD, (H7508C)
Mark Carpenter, SB/PMSD, (H7502C)
William Phillips, BAB/BEAD, (H7503C)
Ingrid Sunzenauer, SACS/EFED, (H7507C)
Edwin R. Budd, SACS/HED, (H7509C)

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Name of Report	Science Discipline	Coordinator Saito	Coordinator Evans	Administrative Record (Ellenberger)
I. General Chemical Report				
A. Formulation(s), Product Type(s), and Restricted Chemical Information	x	x	x	x
B. Type of Pesticide	x	x	x	x
C. Use Groups	x	x	x	x
D. Sites and Use Groups	x	x	x	x
E. Pests	x	x	x	x
F. Use Limitations and Restricted Entry Intervals	x	x	x	x
G. Geographical Limitations at the Product Level	x	x	x	x
H. Geographical Limitations at the Site and/or Application Method Level	x	x	x	x
I. Issues	x	x	x	x
II. DEB report	x	x		x
III. TOX Chemical Reports				
A. Application Equipment for Food/Feed Uses	x	x		x

Name of Report Con't	Science Discipline	Coordinator Saito	Coordinator Evans	Administrative Record (Ellenberger)
B. Diluent Information for Food/Feed Uses	x	x		x
C. Use Patterns for Non-food/Non-feed Uses	x	x		x
IV. NDEB Report	x	x		x
V. EEB Sites Report	x		x	x
VI. EEGWB Chemical Reports				
A. Terrestrial Uses	x		x	x
B. Aquatic Uses	x		x	x
C. Forestry Uses	x		x	x

ALPHABETIC ACTIVE CHEMICAL CODE LIST

ASCII FILE (JULY 89) FROM HUY TRAN, SHIRLEY HAMMEL (PMSD)
PROGRAMMED BY YUEN-SHAUNG NG (BAB/BEAD)

TYPES: NONE OR BLANK = PREFERRED NAME FOR INGREDIENT STATEMENTS,
+=OFFICIAL, #=ANSI, C=COMMON, S=SYNONYM,
T=TRADE OR OTHER, *=NO ACTIVE PRODUCT

TYPE	CHEMICAL CODE	CHEMICAL NAME
	113201	3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione (9CA)
S	113201	CAS Reg. No. 50471-44-8
T	113201	BAS 352 F
T	113201	Ronilan
T	113201	Vinclozolin
T	113201	Vinclozin
T	113201	BAS 35204 F

LUIS
General Chemical Report
Formulation(s), Product Type(s), Restricted Chemical Information

Form	Description	Product	AI Percent	Single AI	Density	End Use	Homeowner Use	Restricted Use Pesticide	Restricted Reason
01	TECHNICAL CHEMICAL	007969-00057	96.0000	YES		NO	NO	NO	
02	FORMULATION INTERMEDIATE	058185-00021	50.0000	YES		NO	YES	NO	
06	WETTABLE POWDER	007969-00053	50.0000	YES		YES	YES	NO	
		058185-00017	50.0000	YES		YES	YES	NO	
14	FLOWABLE CONCENTRATE	007969-00062	41.3000	YES	4.17	YES	YES	NO	

LUIS
General Chemical Report
Type(s) of Pesticide

Description

FUNGICIDE

LUIS
General Chemical Report
Use Groups

Use Group	Description
A1	TERRESTRIAL FOOD CROP

LUIS
General Chemical Report
Site and Use Groups

Food / Feed Uses

Site	Use Group
AERIAL APPLICATION	TERRESTRIAL FOOD CROP
APRICOT	TERRESTRIAL FOOD CROP
CHERRY	TERRESTRIAL FOOD CROP
LETTUCE	TERRESTRIAL FOOD CROP
NECTARINE	TERRESTRIAL FOOD CROP
ONION	TERRESTRIAL FOOD CROP
PEACH	TERRESTRIAL FOOD CROP
PLUM	TERRESTRIAL FOOD CROP
PRUNE	TERRESTRIAL FOOD CROP
RASPBERRY (BLACK, RED)	TERRESTRIAL FOOD CROP
STRAWBERRY	TERRESTRIAL FOOD CROP

LUIS
General Chemical Report
Pests

Pest Name (Common)	Pest Name (Scientific)
BOTRYTIS ROT	

LUIS
General Chemical Report
Use Limitations and Restricted Entry Intervals
By Product, Site, and Application Method

Product	Limitation Reason	Use Group	Site	Application Type	Application Timing	Application Equipment	Rest'd Entry (days)
007969-00053	Use cone or flat fan nozzles. Flood type nozzles should not be used.	TERRESTRIAL FOOD CROP	APRICOT	Spray.	Bloom.	Aircraft.	0.00
007969-00053	Direct seeded lettuce.	TERRESTRIAL FOOD CROP	APRICOT	Spray.	Bloom.	Aircraft.	0.00
007969-00053	Direct seeded lettuce.	TERRESTRIAL FOOD CROP	APRICOT	Spray.	Bloom.	Aircraft.	0.00
007969-00053	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	APRICOT				
007969-00053	28 day(s) preharvest interval.	TERRESTRIAL FOOD CROP	LETTUCE				
007969-00053	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	NECTARINE				
007969-00053	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	PLUM				
007969-00053	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	PRUNE				
007969-00053	In CA, do not apply more than a total of 8 pints of product per acre in no more than 4applications.	TERRESTRIAL FOOD CROP	STRAWBERRY				
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00

LUIS
General Chemical Report
Use Limitations and Restricted Entry Intervals
By Product, Site, and Application Method

Product	Limitation Reason	Use Group	Site	Application Type	Application Timing	Application Equipment	Rest'd Entry (days)
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Direct seeded lettuce.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Use cone or flat fan nozzles. Flood type nozzles should not be used.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Petal fall application only.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	Direct seeded lettuce.	TERRESTRIAL FOOD CROP	PEACH	Low volume spray (concent	Bloom.	Aircraft.	0.00
007969-00062	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	CHERRY				
007969-00062	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	NECTARINE				
007969-00062	18__ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	ONION				

LUIS
General Chemical Report
Use Limitations and Restricted Entry Intervals
By Product, Site, and Application Method

Product	Limitation Reason	Use Group	Site	Application Type	Application Timing	Application Equipment	Rest'd Entry (days)
007969-00062	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	PEACH				
007969-00062	3_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	PLUM				
007969-00062	9_ day(s) preharvest interval.	TERRESTRIAL FOOD CROP	RASPBERRY (BLACK, RED)				
CA830044001	7__ day(s) preharvest interval.						

LUIS
General Chemical Report
Geographic Limitations

Product	Allowed Code	Allowed Location	Disallowed Code	Disallowed Location
007969-00053			CA	California
CA830044001	CA	California		

LUIS
General Chemical Report
Issues

Product	Issue Cat	Issue Description	Site	Use Group	Application Type	Application Timing	Application Equipment
058185-00017	Z	Incomplete label, application method screens not entered into database.					
	Z	incomplete label application screens not included.	ORNAMENTAL HERBACEOUS PLANTS	TERRESTRIAL NON-FOOD CROP			
CA830044001	F	Chemical not found on label.					

NOTE: Issue Cat Codes are

A - Formulation	H - Maximum Number of Apps
B - Pesticide Type	I - Label Error
C - Diluent	J - Site
D - Geographic	K - Application Method
E - Limitations	L - Dosage
F - Chemical/Active Ingredient	M - Soil Type
G - Pest	Z - Comments