

US EPA ARCHIVE DOCUMENT

Thaughnessey No. 109901

Chemical Name Triadimefon

Chemical Class _____

Page 1 of 5

Study/Species/Lab/ Accession # _____
Chemical # a.i. _____

Results

Reviewer/ Validation Date Status

14-Day Single Dose Oral LD50,

LD50 > 4000 mg/kg (95% C.L.) Contr. Mort.(%) = -

Species: Mallard

Tech

Slope= _____ # Animals/Level= _____ Age(Days)= Adult

Lab.: Chemagro

Sex = H/F Felthousen Core

Acc. #: Ag. Div.

14-Day Dose Level mg/kg/(% Mortality)

4000 (0) 2000 (0) 1000 (0) 500 (0)

5-11-77

231311

Comments:

14-Day Single Dose Oral LD50,

LD50 = _____ mg/kg (95% C.L.) Contr. Mort.(%) = _____

Species: _____

Slope= _____ # Animals/Level= _____ Age(Days)= _____

Lab.: _____

Sex = _____

Acc. #: _____

14-Day Dose Level mg/kg/(% Mortality)

(), (), (), (), ()

Comments:

8-Day Dietary LC50,

LC50 > 4640 ppm (95% C.L.) Contr. Mort.(%) = ?

Species: Bobwhite quail

93%

Slope= - # Animals/Level= 10 Age(Days)= 14

Lab.: Wildlife International

Sex = H/F Felthousen Core

Acc. #: 231311

8-Day Dose Level ppm/(% Mortality)

10,000 (?), 4640 (?), 2150 (?), 1000 (?), 464 (?)

4-25-77

Comments:

8-Day Dietary LC50,

LC50 $> 10,000$ ppm (95% C.L.) Contr. Mort.(%) = ?

Species: Mallard

93%

Slope= - # Animals/Level= 10 Age(Days)= 14

Lab.: Wildlife International

Sex = H/F Felthousen Core

Acc. #: 231311

8-Day Dose Level ppm/(% Mortality)

10,000 (0), 4640 (0), 2150 (0), 1000 (0), 464 (0)

4-25-77

Comments:

96-hour LC50,

LC50 = 11 ppm (95% C.L.) Contr. Mort.(%) = _____
Sol. Contr. Mort.(%) = _____

Species: Bluegill

93%

Slope= _____ # Animals/Level= 10

Lab.: Chemagro

Temperature = 18°C Felthousen Core

Acc. #: 231311

96-Hour Dose Level pp/(% Mortality)

21.8 (*?), 14.8 (?), 10.1 (?), 6.9 (?), 4.7 (?)

5-3-77

Comments: *Typographical errors in DER

96-hour LC50,

LC50 = 14 ppm (95% C.L.) Con. Mor.(%) = 0
Sol. Con. Mor.(%) = _____

Species: Rainbow trout

93%

Slope= _____ # Animals/Level= 10

Lab.: Chemagro

Temp. = 12°C Felthousen Core

Acc. #: 231311

96-Hour Dose Level pp/(% Mortality)

21.8 (100), 14.8 (70), 10.1 (0), 6.9 (10), 4.7 (0)

5-3-77

Comments: 3.2 (0)

48-hour Invertebrate,

LC50 = 1.6 ppm (95% C.L.) Con. Mort.(%) = 0
Sol. Con. Mort.(%) = _____

Species: D magna

Tech

Slope= _____ # Animals/Level= 10

Lab.: Chemagro

Temp. = 72°F Felthousen Core

Acc. #: 231311

96-Hour Dose Level pp/(% Mortality)

2.2 (80), 1.6 (40), 1.1 (30), 0.8 (20), 0.6 (0)

3-14-77

Comments: 0.4 (0)
1st + 2nd instars

Shughnessey No. 109901

Chemical Name Triadimefon

Chemical Class _____

Page 2 of 5

Study/Species/Lab/ Accession #	Chemical % a.i	Results	Reviewer/ Date	Validation Status
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14-Day Single Dose Oral LD50,		95% C.L.		
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LD50 = mg/kg () Contr. Mort.(%)=

Species; Slope= # Animals/Level= Age(Days)=

Lab.; Sex =

14-Day Dose Level mg/kg/(% Mortality)

Acc. #: (), (), (), (), ()

Comments:

14-Day Single Dose Oral LD50,		95% C.L.		
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LD50 = mg/kg () Contr. Mort.(%)=

Species; Slope= # Animals/Level= Age(Days)=

Lab.; Sex =

14-Day Dose Level mg/kg/(% Mortality)

Acc. #: (), (), (), (), ()

Comments:

8-Day Dietary LC50,		95% C.L.		
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LCS0 = ppm () Contr. Mort.(%)=

Species; Slope= # Animals/Level= Age(Days)=

Lab.; Sex =

8-Day Dose Level ppm/(%Mortality)

Acc. #: (), (), (), (), ()

Comments:

8-Day Dietary LC50,		95% C.L.		
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LCS0 = ppm () Contr. Mort.(%)=

Species; Slope= # Animals/Level= Age(Days)=

Lab.; Sex =

8-Day Dose Level ppm/(%Mortality)

Acc. #: (), (), (), (), ()

Comments:

96-hour LC50,		95% C.L.		
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LCS0 = 15 ppm (13-17) Contr. Mort.(%)=

Species; Channel Cat. Slope= # Animals/Level= 10 Sol. Contr. Mort.(%)=

Lab; Chemagro Temperature = 18 Felthousen Core

Acc. #: 231311 28.9(?), 20.6(?), 14.7(?), 10.5(?), 7.5(?) 5-3-77

Comments: * Typographical errors in DER

96-hour LC50,		95% C.L.		
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LCS0 = pp () Con. Mor.(%)=

Species; Slope= # Animals/Level= Sol. Con. Mor.(%)=

Lab.; Temp.=

96-Hour Dose Level pp /(%Mortality)

Acc. #: (), (), (), (), ()

Comments:

48-hour Invertebrate,		95% C.I.		
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LCS0 = pp () Con. Mort.(%)=

Species; Slope= # Animals/Level= Sol. Con. Mort.(%)=

Lab.; Temp.=

96-Hour Dose Level pp /(%Mortality)

Acc. #: (), (), (), (), ()

Comments:

Shaughnessey No. 109901

Triadimefon

Chemical Name _____ Chemical Class _____ Page 3 of 5

Study/Species/Lab/
Accession # _____

Chemical
% Active _____

Results

Reviewer/
Date _____

Validation
Status _____

Avian Reproduction,

Group _____ Dose(ppm) _____ Effected/Parameters _____ Mort.(%) _____ %ChE Inh. _____

Species: Mallard

Control _____

937b

Treatment I 20 _____

Rieder Supplem.

Lab: Mobay Chemical Corp.

Treatment II 100 _____

9-13-82

Acc. #: 248117

Treatment III 500 _____

Study Duration: 14 days post-hatch

Comments:

NEC > 500ppm. Poor reproductive success in controls.

Field Study(Simulated/Actual)

Group _____ Rate(ai/a) _____ Treatment Interval _____ Total # Treatments _____ Mor.(%) _____

Species: _____

Control _____

Treatment I _____

Lab: _____

Treatment II _____

Acc. #: _____

Treatment III _____

Crop/Site: _____ Study Duration: _____

Comments: _____

Chronic fish,

Concentrations Tested (ppb) = 50, 150, 450, 1350, 4050

Species Rainbow trout

937b

MAIC = > _____ < _____ ppb. Effected Parameter = _____

Lab: ?

Contr. Mort.(%) = 8.23% Sol. Contr. Mort.(%) = _____

Rieder Supplem.

Acc. #: 248117

Comments:

9-16-82

17 day LC50 = 1270ppb; test lasted only 17 days

Chronic invertebrate,

Concentrations Tested (ppb) = 37, 87, 154, 314, 710

Species Daphnia magna

937b

MAIC => 154 < 314 ppb. Effected Parameter(s) Reprod. Impairm.

Lab: Mobay Chem. Corp.

Contr. Mort.(%) = 0 Sol. Contr. Mort.(%) = _____

Core

Acc. #: 246736

Comments:

Reprod. Impairm. 3-82

Reprod. impairment at two highest levels

Shaughnessey No. 109901

Chemical Name Triadimefon Chemical Class _____

Page 4 of 05

Study/Species/Lab/
Accession # _____

Chemical
& Active _____

Results

Reviewer/
Date _____

Validation
Status _____

Avian Reproduction,
Species: Bobwhite

Group _____ Dose(ppm) _____ Effected/Parameters _____ Mort.(%) _____ %Eh Inh. _____

Control _____
Treatment I 20 _____ Rieder,
9-9-82 Core

Treatment II 100 eggs cracked, fertile
eggs, viable emb., hatchlings, + 14 d. survivors

Treatment III 500 11

Study Duration: 14 days post-hatch

Comments: _____

Lab: Mobay Chemical Corp.

Acc. #: 248117

Field Study(Simulated/Actual)

Group _____ Rate(ai/a) _____ Treatment Interval _____ Total # Treatments _____ MOR.(%) _____

Species: _____

Control _____

Treatment I _____

Lab: _____

Treatment II _____

Treatment III _____

Acc. #: _____

Crop/Site: _____ Study Duration: _____

Comments: _____

Chronic fish,

Concentrations Tested (pp_) = _____

Species _____

MAIC = > _____ < _____ pp. Effected Parameter = _____

Lab: _____

Contr. Mort.(%) = _____ Sol. Contr. Mort.(%) = _____

Acc. #: _____

Comments: _____

Chronic invertebrate,

Concentrations Tested (pp_) = _____

Species _____

MAIC => _____ < _____ pp. Effected Parameter(s) _____

Lab: _____

Contr. Mort.(%) = _____ Sol. Contr. Mort.(%) = _____

Acc. #: _____

Comments: _____

Shaughnessey No. 109901

Triadimenol

Chemical Name _____ Chemical Class _____ Page 5 of 5

Study/Species/Lab/ Accession #	Chemical % Active	Results				Reviewer/ Date	Validation Status
Avian Reproduction, Species;		Group	Dose(ppm)	Effectuated/Parameters	Mort.(%)	%ChE Inh.	
		Control	_____	_____	_____	_____	
		Treatment I	_____	_____	_____	_____	
Lab;		Treatment II	_____	_____	_____	_____	
		Treatment III	_____	_____	_____	_____	
Acc. #;		Study Duration:					
		Comments:					

Field Study(Simulated/Actual)	Group	Rate(ai/a)	Treatment Interval	Total # Treatments	Mor.(%)
Species;	Control	_____	_____	_____	_____
	Treatment I	_____	_____	_____	_____
Lab;	Treatment II	_____	_____	_____	_____
	Treatment III	_____	_____	_____	_____
Acc. #;	Crop/Site:		Study Duration:		
	Comments:				

Chronic fish,
Species Rainbow trout
Lab; Mobay Corp.
Acc.#; 251243

Concentrations Tested (ppb) = 13, 41, 116, 300, 890
 MAIC = > 41 < 116 ppb. Effectuated Parameter = growth
 Contr. Mort.(%) = 32% Sol. Contr. Mort.(%) = —
 Comments: Natella Suppl. 12-15-83 ✓

Necessary information not provided

Chronic invertebrate, Species	Concentrations Tested (pp_) = _____
Lab;	MAIC => _____ < _____ pp . Effectuated Parameter(s) _____
Acc.#;	Contr. Mort.(%) = _____ Sol. Contr. Mort.(%) = _____
	Comments:

Daughnessey No. 109901

Chemical Name Triadimefon

Chemical Class F

Page 1 of 1

Study/Species/Lab/
Accession #
4-Day Single Dose Oral LD50,

Chemical
% a.i.

Results

Reviewer/
Date

Validation
Status

Species: Bluegill

50% WP

Lab.:

Acc. #: 254693

LD50 = mg/kg (95% C.L.) Contr. Mort.(%)=
Slope= # Animals/Level= Age(Days)=
Sex =
14-Day Dose Level mg/kg/(% Mortality)
(), (), (), (), ()

Comments:

4-Day Single Dose Oral LD50,

Species:

Lab.:

Acc. #:

LD50 = mg/kg (95% C.L.) Contr. Mort.(%)=
Slope= # Animals/Level= Age(Days)=
Sex =
14-Day Dose Level mg/kg/(% Mortality)
(), (), (), (), ()

Comments:

8-Day Dietary LC50,

Species:

Lab.:

Acc. #:

LCS0 = ppm (95% C.L.) Contr. Mort.(%)=
Slope= # Animals/Level= Age(Days)=
Sex =
8-Day Dose Level ppm/(% Mortality)
(), (), (), (), ()

Comments:

8-Day Dietary LC50,

Species:

Lab.:

Acc. #:

LCS0 = ppm (95% C.L.) Contr. Mort.(%)=
Slope= # Animals/Level= Age(Days)=
Sex =
8-Day Dose Level ppm/(% Mortality)
(), (), (), (), ()

Comments:

96-hour LC50,

Species: Bluegill

Lab.: Mohay Chem Corp.

Acc. #: 254693

Journal of
Production

50% WP

LCS0 = 16 ppm (95% C.L.) Contr. Mort.(%)= 0
Sol. Contr. Mort.(%)= -
Slope= - # Animals/Level= 10 Temperature = 24°C Lee/12.5.84 Suppl.
96-Hour Dose Level ppm/(% Mortality)
6.9 (0), 10.1 (0), 14.8 (30), 21.8 (100), 32.1 (100)

Comments:

96-hour LC50,

Species: Rainbow trout

Lab.: Mohay Chem Corp.

Acc. #: 254693

50% WP

LCS0 = 28 ppm (95% C.L.) Con. Mor(%)= 0
Sol. Con. Mor.(%)= -
Slope= - # Animals/Level= 10 Temp. = 15°C Lee
12.5.84 Suppl
96-Hour Dose Level pp /(% Mortality)
10.1 (0), 14.8 (10), 21.8 (0), 32.1 (80), 47.1 (100)

Comments:

96-hour Invertebrate,

Species: crayfish

Lab.: Mohay Chem Corp.

Acc. #: 254693

50% WP

LCS0 = 104 ppm (95% C.L.) Con. Mort.(%)= 0
Sol. Con. Mort.(%)= -
Slope= - # Animals/Level= Temp. = 19.5-21.9 °C Lee
12.10.84 Suppl.
96-Hour Dose Level pp /(% Mortality)
32 (0), 64 (0), 128 (80), 156 (100), ()

Comments:

Shanghai No. 109901

Chemical Name Triadimefon Chemical Class _____ Page 1 of 1

Study/Species/Lab/ Accession Chemical z a.i.

Reviewer/ Validation Date Status

14-Day Single Dose Oral LD50

LD50 = mg/kg (95% C.L.) Contr. Mort. (X) =

Species _____

Slope = # Animals/Level = Age (Days) = Sex =

Lab _____

14-Day Dose Level mg/kg/(X Mortality)
() , () , () , () , ()

Acc. _____

Comments:

14-Day Single Dose Oral LD50

LD50 = mg/kg (95% C.L.) Contr. Mort. (X) =

Species _____

Slope = # Animals/Level = Age (Days) = Sex =

Lab _____

14-Day Dose Level mg/kg/(X Mortality)
() , () , () , () , ()

Acc. _____

Comments:

8-Day Dietary LC50

LC50 = ppm (95% C.L.) Contr. Mort. (X) =

Species _____

Slope = # Animals/Level = Age (Days) = Sex =

Lab _____

8-Day Dose Level ppm/(X Mortality)
() , () , () , () , ()

Acc. _____

Comments:

8-Day Dietary LC50

LC50 = ppm (95% C.L.) Contr. Mort. (X) =

Species _____

Slope = # Animals/Level = Age (Days) = Sex =

Lab _____

8-Day Dose Level ppm/(X Mortality)
() , () , () , () , ()

Acc. _____

Comments:

48-Hour LC50

LC50 = pp (95% C.L.) Contr. Mort. (X) = Sol. Contr. Mort. (X) =

Species _____

Slope = # Animals/Level = Temperature =

Lab _____

48-Hour Dose Level pp/(X Mortality)
() , () , () , () , ()

Acc. _____

Comments:

96-Hour LC50

LC50 = 0.91 ppm (95% C.L. Probit) | difference
Con. Mort. (X) = 0

Species Selenastrium Capricornutum

Slope = 1.5 cells/mL = 1.0 x 10⁴ Sol. Con. Mort. (X) = N/A

Lab Analytical Bio-chemistry Laboratories

96-Hour Dose Level ppm / (X Mortality) Temp. = 24 ± 1 °C
0.49 (38.7) • 0.96 (48.7) • 1.9 (6% D) • 4.0 (80.7) • 8.7 (96.7)

Acc. MRID 416160-07

Comments: mean measured concentrations

96-Hour LC50

LC50 = pp (95% C.L.) Con. Mort. (X) = Sol. Con. Mort. (X) =

Species _____

Slope = # Animals/Level = Temperature =

Lab _____

96-Hour Dose Level pp / (X Mortality)
() , () , () , () , ()

Acc. _____

Comments: