US ERA ARCHIVE DOCUMENT

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DPBARCODE (RECORD 129011
SHAUGHNESSY NO (RECORD)

EEB REVIEW
DATE IN: 10-03-91 OUT:
CASE # : 280884 REREG CASE #: SUBMISSION # : S403815 LIST A, B, C, D ID # : 000707-EUP-121
DATE OF SUBMISSION 08-30-91
DATE RECEIVED BY EFED
SRRD/RD REQUESTED COMPLETION DATE12-19-91
EEB ESTIMATED COMPLETION DATE 12-19-91
SRRD/RD ACTION CODE/TYPE OF REVIEW
MRID #(S)
DP TYPE 001 - Submission Related Data Package
PRODUCT MANAGER, NO. <u>C. Giles-Parker (22)</u>
PRODUCT NAME(S) RH-7592
TYPE PRODUCT FRINHD <u>Fungicide</u>
COMPANY NAME Rohm and Haas Company
SUBMISSION PURPOSE <u>Review request for extension of</u>
INCLUDE USE(S) <u>EUP on stone fruits</u>
COMMON CHEMICAL NAMEFenbuconazole



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

#### **MEMORANDUM**

SUBJECT:

EUP Extension for RH-7592 (Fenbuconazole)

DP Barcode: 169204

ID No: 129011

FROM:

Douglas J. Urban, Acting Chief

Ecological Effects Branch

Environmental Fate and Effects Division (H7507C)

TO:

Cynthia Giles-Parker, PM 22 Fungicide/Herbicide Branch

Reregistration Division (H7505C)

#### **BACKGROUND**

Rohm and Haas Company has requested an extension of its EUP for RH-7592 (Fenbuconazole) on stone fruit. The objectives of this EUP extension request as proposed by the registrant are to:

-collect additional efficacy and residue data in certain states

-collect data on air versus ground applications

The original EUP was granted on February 15, 1990 for 558 pounds of active ingredient per year (730 acres per year) and was spread throughout 22 states. February 22, 1991 the EUP was amended and approved for 468.5 pounds of active ingredient per year (625 acres per year) and was spread through 25 states. The EUP extension for the latter limits has been requested to run until October 31, 1993.

## EEB REVIEW RH-7592 (Fenbuconazole)

#### 100.0 Submission Purpose and Label Information

#### 100.1 Submission Purpose and Pesticide Use

Request for experimental use permit (EUP) extension for RH-7592 fungicide on stone fruit.

#### 100.2 <u>Formulation Information</u>

Active ingredient

~-[2-(4-chlorophenyl)ethyl]-~phenyl-1<u>H</u>-1,2,4-triazole-1propanitrile......22.8%

Inert ingredients......77.2%

Equivalent to 2 lbs active ingredient per gallon.

#### 100.3 Application Methods, Directions, Rates

See attached label.

#### 100.4 Target Organisms

Blossom Blight (Monilinia spp.)
Fruit Brown Rot (Monilinia spp.)
Scab
Rust (Tranzschelia sp.)

#### 100.5 Precautionary Labeling

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift or runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters and rinsates.

#### 101.0 Hazard Assessment

#### 101.1 Discussion

The objectives of this EUP extension request as proposed by the registrant are to:

-collect additional efficacy and residue data in certain states

-collect data on air versus ground applications (attached label is, therefore, a revised label).

The EUP extension has been requested to run until October 31, 1993 with the following use pattern:

REGION	STATE	# TRIALS	# ACRES	TOTAL LBS
WESTERN	California	60	150	112.5
	Colorado	4	10	7.5
	Idaho	10	25	18.7
	Montana	4	10	7.5
	Oregon	16	40	30.0
,	Utah	8	20	15.0
	Washington	16	40	30.0
-	TOTAL	118	295	221.2
EASTERN	Alabama	2	5	3.7
	Arkansas	4	10	7.5
	Delaware	4	10	7.5
	Georgia	16 -	40	30.0
	Illinois	2	5	3.7
	Louisiana	4	10	7.5
•	Maryland	4	10	7.5
·	Michigan	16	40	30.0
,	Missouri	2	5	3.7
	New Jersey	8	20	15.0
	N. Carolina	4	10	7.5
	Ohio	2	5	3.7
	Pennsylvania	8	20	15.0
	S. Carolina	16	40	30.0
	Texas	8	20	15.0
	Virginia	8	20	15.0
	West Virginia	8	20	15.0
	Wisconsin	8	20	15.0
	TOTAL	132	330	247.3
-	GRAND TOTAL	250	625	468.5

#### 101.2 <u>Likelihood of Adverse Effects to Nontarget Organisms</u>

#### Environmental Fate Data

The following was excerpted from a 1989 EEB review by Harry Winnik:

The following data was obtained from the Environmental Fate and Groundwater Branch review of EUP to test RH-7592 on stone fruit, submitted by Clinton Fletcher, Chemist, Review Section 1, EFGWD/EFED:

- . RH-7592 will be stable to hydrolysis at pH levels found in the environment.
- . RH-7592 will degrade in soil under aerobic conditions with a half-life of 285 and 367 days in Lawrenceville silty clay loam and Pasquotank sandy loam soils, respectively.
- . RH-7592 will degrade in soil under anaerobic conditions with a half-life of 451 and 655 days in the Lawrenceville silty clay loam and the Pasquotank sandy loam soils, respectively.
- . RH-7592 will be only slightly mobile to immobile in soils. Adsorption appears to be associated with percent organic matter present. RH-7592 will be slightly mobile in soils containing a low percent organic material (≤1%) and relatively immobile in soils with higher levels of organic material.
- . RH-7592 residues have only a slight potential to leach in the soil environment.
- . RH-7592 will not bioaccumulate in fish and any residues that are taken up will be depurated when fish are no longer exposed to RH-7592 residues.

The above data indicate that RH-7592 is quite stable and may be persistent in the environment (under aerobic conditions up to 367 days and under anaerobic conditions up to 655 days).

#### Terrestrial Hazard

RH-7592 may be characterized as practically non-toxic on an acute basis to avian species (Bobwhite quail Colinus virginianus, LD $_{50}$ >2150 mg a.i./kg).

RH-7592 may be characterized as slightly toxic on a

<u>platyrhynchos</u>, LC<sub>50</sub> of 2013 ppm, and Bobwhite quail <u>Colinus virginianus</u>, LC<sub>50</sub> of 4050 ppm).

RH-7592 may be characterized as relatively non-toxic to nontarget insects (Honey bee <u>Apis melifera</u>,  $LD_{50}>292.18$  ug a.i./bee).

At a maximum application rate of 7.5 oz/A RH-7592 (equivalent to 0.125 lbs a.i./A) the maximum residue expected on such food items as insects and forage would be 1.5 ppm and 7.25 ppm respectively. These levels are significantly below the  $LC_{50}$  values for Bobwhite Quail and Mallard Ducks with respect to RH-7592.

On the basis of these data, the proposed EUP does not pose a significant threat to birds or insects.

At the time of this review there was no mammalian toxicity data available. Therefore, a hazard assessment to mammals was not possible.

#### Aquatic Hazard

RH-7592, with a 96-hour  $LC_{50}$  or 1.5 mg a.i./L for Rainbow trout <u>Salmo gairdneri</u>, is considered moderately toxic to coldwater fish. Data for the Bluegill sunfish (<u>Lepomis macrochirus</u>), 96-hour  $LC_{50}$  of 0.68 mg a.i./L, indicate that RH-7592 is highly toxic to warmwater fish.

The 48-hour  $EC_{50}$  for <u>Daphnia magna</u> of 2.3 mg a.i./L indicates that RH-7592 is moderately toxic to freshwater invertebrates.

Based on the EEB scenario of a 10-acre drainage basin draining into a one acre farm pond, the maximum estimated environmental concentration (EEC) for maximum application rate of 0.125 lbs a.i./A would be approximately 7.7 ppb. This concentration is less than one-tenth the  $LC_{50}$  values for coldwater fish, warmwater fish and freshwater invertebrates. As such, RH-7592 does not pose a significant hazard to aquatic organisms as a result of single applications. However, according to the label instructions the potential exists for multiple applications of RH-7592. Subsequently, the EPA Pesticide Residue Fate Simulation computer program was used to estimate the maximum and average residues expected from drift and runoff from a 10 acre treated area into a 1 acre pond, 6 ft. deep as a result of multiple applications of RH-7592. The application rate was assumed to be 0.125 lb. a.i./acre. Since the solubility of RH-7592 is 3.8 ppm the runoff rate was

was assumed to be 0.125 lb. a.i./acre. Since the solubility of RH-7592 is 3.8 ppm the runoff rate was assumed to be 2%. Using EEC calculation formulas for Aerial Application or Mist Blower, an EEC of 1.96 ppb was obtained. Assuming half life figures of 285 days and 655 days, application intervals of 14 day and 10 days respectively, number of applications of 6 and 8 respectively, and lengths of simulation of 84 days and 80 days respectively, maximum and average residues were calculated. The table below lists the values obtained for each data set:

•	<u>Set 1</u>	Set 2
EEC/Application	1.96 ppb	1.96 ppb
Half Life	285 days	655 days
# of Applications	6	8
Application Interval	14 days	10 days
Length of Simulation	84 days	80 days
Maximum Residue	10.8 ppb	15.1 ppb
Average Residue	6.4 ppb	8.6 ppb

The average residues calculated for data sets 1 and 2 approach and exceed respectively 0.01  $LC_{50}$  of warmwater fish of 0.68 mg. a.i./L (6.8 ppb). These results combined with the fact that the  $LC_{50}$  of warmwater fish is less than 1 mg. a.i./L, trigger the need for Fish Early Life Stage and Invertebrate Life Cycle studies prior to Section 3 registration.

The only changes from the 1989 review is that in 1991 the EPA Pesticide Residue Fate Simulation computer program was run with the following parameters:

	SET 1	SET 2	SET 3	SET 4
EEC/APPLICATION <sup>1</sup>	1.3 ppb	1.3 ppb	1.3 ppb	1.3 ppb
HALF LIFE	655 days <sup>2</sup>	655 days <sup>2</sup>	285 days <sup>2</sup>	285 days <sup>2</sup>
# OF APPLICATIONS <sup>3</sup>	8	8	8	8
APPLICATION INTERVAL4	10 days	14 days	10 days	14 days
LENGTH OF SIMULATION	100 days	100 days	100 days	100 days
RESIDUE	10.0 ppb	9.9 ppb	9.6 ppb	9.3 ppb

<sup>1</sup>The EEC sheet for a single application is attached (attachment A).

<sup>2</sup> 655 days is the anaerobic half-life of RH-7592 in sandy loam soil, which best approximates the half-life of RH-7592 that would be found in water affected from drift and runoff from use on stone fruit crops. 285 days is the aerobic half-life of RH-7592 in silty clay loam. This value was employed to find the range of possible residues (attachment B).

<sup>3</sup>The maximum number of applications possible when there is a maximum of 1 pound per acre active ingredient applied per season.

<sup>4</sup>According to the label, application interval for repeat applications ranges from 10 to 14 days.

RH-7592 is extremely persistent in the aquatic environment. With repeat applications at either 10 or 14 day intervals, there are several triggers for the fish early life stage and invertebrate life cycle studies:

- 1/100 of the  $LC_{50}$  for Bluegill sunfish is surpassed whether the half-life is considered to be 655 days (sandy loam soil anaerobic half-life) or 285 days (silty clay loam soil aerobic half-life).
- the  $LC_{50}$  for the acute toxicity to warmwater fish is < 1 ppm
- RH-7592 is extremely persistent in water. The half-life from photolysis in water is 1283 days and the compound is stable to hydrolysis at pH range of 5-9.

The avian reproduction study, preferably with bobwhite and mallard is also triggered by RH-7592's persistence in the environment.

#### Plant Hazard

Due to the low water solubility of RH-7592 (3.8 ppm) the hazard to aquatic plants should be minimal and aquatic plant growth testing on the freshwater green alga <u>Selenastrum capricornutum</u> will not be required at this time.

#### 101.1 Endangered Species Consideration

With low application rate, low toxicity, and limited acreage, this proposed EUP extension does not pose a hazard to endangered species.

#### 101.4 Adequacy of Toxicity Data

Again, the following summary is excerpted from the 1989 EEB review:

- Fletcher, D. W., (1988), 21-Day Acute Oral  $\rm LD_{50}$  Study with RH-7592 Technical in Bobwhite Quail, prepared by Bio-Life Associates, Ltd., Neillsville, Wisconsin, Report No. 88RC-0021, Submitted by

Rohm and Haas Company, Spring House, Pennsylvania. EPA Accession No. 410312-31

This study is scientifically sound and fulfills the guideline requirements for an avian single-dose oral toxicity test.

The oral LD $_{50}$  of RH-7592 Technical for Bobwhite quail Colinus virginianus was greater than 2,150 mg a.i./kg of body weight as determined by this study. RH-7592 is considered practically non-toxic to Bobwhite Quail.

- Fletcher, D. W., (1988), 8-Day Acute Dietary Study with RH-7592 Technical in Mallard Ducklings, prepared by Bio-Life Associates, Ltd., Neilsville, Wisconsin, Report No. 88RC-0019, submitted by

Rohm and Haas Company, Spring House, Pennsylvania, EPA Accession No. 410312-32

This study is scientifically sound and fulfills the guideline requirements for an avian dietary  $LC_{50}$  test.

The dietary  $LC_{50}$  of RH-7592 Technical for Mallard duck Anas platyrhynchos was 2,013 ppm active ingredient as determined by this study. RH-7592 Technical is considered slightly toxic to Mallards. The NOEC was 312 ppm active ingredient.

- Fletcher, D. W., (1988), 8-Day Acute Dietary Study with RH-7592 Technical in Bobwhite Quail, prepared by Bio-Life Associates, Ltd., Neilsville, Wisconsin, Report No. 88RC-0020, submitted by

Rohm and Haas Company, Spring House, Pennsylvania, EPA Accession No. 410312-33

This study is scientifically sound and fulfills the guideline requirements for an avian dietary  $LC_{50}$  test.

The dietary  $LC_{50}$  of RH-7592 Technical for Bobwhite quail <u>Colinus virginianus</u> was 4,50 ppm active ingredient as determined by this study. RH-7592

Technical is considered slightly toxic to Bobwhite Quail. The NOEC was 625 ppm active ingredient.

- Swigert, J.P., (1988), Acute Flow-Through Toxicity of RH-7592 Technical to Bluegill sunfish (<u>Lepomis macrochirus</u>), prepared by Analytical Bio-Chemistry Laboratories, Inc., Columbia, Missouri, Report No. 88RC-0024, submitted by

Rohm and Haas Company, Spring House, Pennsylvania, Accession No. 410735-06.

This study appears a scientifically sound and fulfills the guideline requirements for an acute 96-hour flowthrough toxicity test using a warmwater fish species.

The 96-hour LC<sub>50</sub> of RH-7592 Technical to Bluegill sunfish (<u>Lepomis macrochirus</u>) was 0.68 mg a.i./L based on mean measured concentrations as determined by this study. RH-7592 Technical is classified as highly toxic to Bluegill. The NOEC was 0.42 mg a.i./L after 96 hours.

- Swigert, J.P., (1988), Acute Flow-Through Toxicity of RH-7592 Technical to Rainbow trout <u>Salmo gairdneri</u>, prepared by Analytical Bio-Chemistry Laboratories, Inc., Columbia, Missouri, Report No. 88RC-0025, submitted by

Rohm and Haas Company, Spring House, Pennsylvania, Accession No. 410312-35.

This study appears a scientifically sound and fulfills the guideline requirements for an acute 96-hour flowthrough toxicity test using a coldwater fish species.

The 96-hour LC<sub>50</sub> of RH-7592 Technical to Rainbow trout Salmo gairdneri was 1.5 mg a.i./L based on mean measured concentration as determined by this study. RH-7592 Technical is classified as moderately toxic to Rainbow Trout. The NOEC was 0.70 mg a.i./L after 96 hours.

- Burges, D., (1988), Acute Flow-Through Toxicity of RH-7592 Technical to <u>Daphnia magna</u>, prepared by Analytical Bio-Chemistry Laboratories, Inc., Columbia, Missouri, Report No. 88RC-022, submitted by

Rohm and Haas Company, Spring House, Pennsylvania Accession No. 410735-07.

This study appears scientifically sound and fulfills the guideline requirements for an acute 48-hour flowthrough toxicity test for freshwater invertebrates.

The 48-hour EC $_{50}$  of RH-7592 Technical to <u>Daphnia magna</u> was 2.3 mg a.i./L based on mean measured concentrations as determined by this study. RH-7592 Technical is classified as moderately toxic to <u>Daphnia magna</u>. The NOEC was determined to be 0.78 mg a.i./L after 48 hours.

- Atkins, E.L., (1988), RH-7592 Technical: Bee Adult Toxicity Dusting Test, conducted by Department of Entomology, University of California, Report No. 88RC-0066, submitted by

Rohm and Haas Company, Spring House, Pennsylvania Accession No. 410312-38

This study is scientifically sound and fulfills the guideline requirements for an acute contact  ${\rm LD}_{50}$  test using honeybees.

The 96-hour LD<sub>50</sub> of RH-7592 Technical to Honey bee <u>Apis melifera</u> was greater then 292.18 ug a.i./bee as determined by this study. RH-7592 Technical is considered relatively non-toxic to honeybees when administered as a dusting powder. The NOEL for this study was 292.18 ug a.i./bee, the only dosage tested.

Prior to section 3 registration the following data will be required:

- . Avian reproduction (preferably Mallard and Bobwhite)
- . Fish early life stage (with Bluegill sunfish)
- . Invertebrate life cycle

Following review of required EEB data, submission of additional toxicity data may be necessary.

#### 101.5 Adequacy of Labeling

The labeling is adequate for the current proposed uses of RH-7592.

#### 102.0 Classification

Not classified.

#### 103.0 Conclusions

Based on available data, the proposed EUP extension will not pose a significant adverse effect to avian, fish, invertebrate, or insect species.

RH-7592 has a low water solubility. Therefore, the proposed EUP extension will not pose significant adverse effects to aquatic plants.

Environmental fate data indicates that RH-7592 is persistent in both aquatic and terrestrial environments. Therefore, the following studies are required prior to section 3 registration:

- Avian reproduction (preferably with mallard and bobwhite).
- -Fish early life stage with Bluegill sunfish and aquatic invertebrate life-cycle.

Heather Mansfield, Zoologist, Section 2 Heather Mansfield Ecological Effects Branch 12/5/91
Environmental Fate and Effects Division (H7507C)

Allen Vaughan, Acting Head, Section 2 Allen W Vaughen
Ecological Effects Branch

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Douglas J. Urban, Acting Chief Ecological Effects Branch

Environmental Fate and Effects Division (H7507C)

### EEC CALCULATION SHEET

## I. For un-incorporated ground application

#### A. Runoff

EEC of 1 lb a.i. direct application to 1 A. pond 6-foot deep = 61 ppb

Therefore, EEC = 61 ppb x \_\_\_\_(lb) = \_\_\_\_ ppb

## II. For incorporated ground application

#### A. Runoff

\_\_lb(s) 
$$\frac{\cdot}{\cdot}$$
 \_\_(cm) x 0.0\_ x 10 (A) = \_\_lb(s) (depth of (\_% runoff) (l0 A (tot.runoff) incorporation) d.basin)

Therefore, EEC = 61 ppb x \_\_\_\_(lbs) = \_\_\_\_ppb

## III. For aerial application (or mist blower)

#### A. Runoff

O. 
$$125$$
 lb(s) x 0.6 x  $0.02$  x 10 (A) =  $\frac{.015}{(\text{tot.runoff})}$  lb(s) (appl. ( $\frac{.}{2}$  (10 A. (tot.runoff) efficiency) runoff) d.basin)

#### B. Drift

$$\frac{.125}{.0063} lb(s) \times 0.05 = .0063 lb(s) (tot. drift)$$

Tot. loading = 
$$\frac{.015}{(\text{tot. runoff})}$$
 lb(s) +  $\frac{.0063}{(\text{tot. drift})}$  lb(s) =  $\frac{.0213}{(\text{lb(s)})}$ 

Therefore, EEC = 61 ppb x O213 (lbs) = 1.3 ppb

## DAILY ACCUMULATED PESTICIDE RESIDUES---MULTP. APPL.

Chemical name Initial concer Half-life	ntration (pp		RH-7592 1.3 655	(FENBUCONAZOLE)
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60
                8.817612
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                8.808286
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                 9.856484
                 9.846059
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                 9.835645
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                 9.825241
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                9.81485
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                 9.804468
                 9.794098
 92
 93
                 9.78374
                 9.773392
 94
                 9.763055
 95
                 9.752729
 96
                 9.742412
 97
                 9.732108
 98
 99
                 9.721815
                 9.711532
 100
                                                 10.02479
Maximum residue
                                                 6.540923
Average residue
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### DAILY ACCUMULATED PESTICIDE RESIDUES --- MULTP. APPL.

Chemical name Initial concen Half-life A number of ap Application in Length of simu	plication terval		RH-7592 (FENBUCONAZOLE) 1.3 655 8 14 100
DAY	RESIDUE (PPM)		
0 1 2 3 4 5 6 7	1.3 1.298625 1.297252 1.295879 1.294509 1.29314 1.291772 1.290406		
8 9 10 11 12 13 14	1.289041 1.287677 1.286315 1.284955 1.283596 1.282238 2.580882		
15 16 17 18 19 20 21	2.578152 2.575425 2.572702 2.56998 2.567262 2.564547 2.561834 2.559125		
23 24 25 26 27 28 29 30 31	2.556418 2.553714 2.551013 2.548315 2.54562 3.842927 3.838863 3.834802 3.830746 3.826694	3 <sup>'</sup> ,	
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                5.022229
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                5.016917
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                6.311611
57
                6.304935
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                6.298267
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                6.291605
60
                6.284951
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                6.278303
62
                6.271663
63
                6.265029
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                6.258403
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                6.251783
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                6.245171
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                6.238566
68
                6.231967
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                6.225376
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                7.518791
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                7.510839
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                7.502895
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                7.494959
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                7.479113
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                7.471202
77
                7.4633
                7.455406
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79
                7.447521
80
                7.439645
81
                7.431775
82
                7.423915
83
                7.416063
                8.708219
84
85
                8.699008
86
                8.689807
87
                8.680616
                8.671436
88
89
                8.662264
90
                8.653101
91
                8.643949
92
                8.634806
93
                8.625673
94
                8.616551
95
                8.607437
                8.598333
96
97
                8.589239
                            8.
98
                9.880154
99
                9.869704
100
                9.859264
```

Maximum residue

Average residue

9.880154

5.159456

## DAILY ACCUMULATED PESTICIDE RESIDUES --- MULTP. APPL.

Chemical name	RH-7592
Initial concentration (ppm)	1.3
Half-life	285
A number of application	8
Application interval	14
Length of simulation (day)	100

DAY		RESIDUE	(PPM)
± × , <b>0</b>		1.3	
1	g F	1.29684	
2		1.29369	-
3 4		1.29054	
5	a.	1.28741	
6		1.28116	
7		1.27805	
8	*	1.27495	
9		1.27185	
10		1.26876	
11		1.26568	
12		1.26260	8
13		1.25954	1
_14		2.55648	31
<b>1</b> 5		2.55027	71
16		2.54407	
17		2.53789	
18		2.53173	
19		2.52558	
20		2.51944	
21		2.51332	
22		2.50722	
23 24		2.50113	
24 25		2.48899	
26		2.48294	
27 27		2.4769	
		3.7709	
29		3.76174	
30		3.7526	
31		3.74348	36
32		3.73439	93
33		3.7253	21
34		3.7162	
35		3.7072	
36		3.6982	
37		3.6892	
38		3.68029	
39		3.6713	
40		3.6624	
41		3.6535	
42		4.9446	
43			
44		4.9206	<i>,</i> T

```
45
                4.908718
46.
                4.896794
                4.884899
47
                 4.873033
48
49
                 4.861196
50
                 4.849387
51
                 4.837607
52
                 4.825856
53
                 4.814133
54
                 4.802439
55
                 4.790774
56
                 6.079136
57
                 6.064369
                 6.049638
58
59
                 6.034942
60
                 6.020282
61
                 6.005658
62
                 5.99107
63
                 5.976517
64
                 5.961999
65
                 5.947516
 66
                 5.933069
 67
                 5.918657
 68
                 5.904279
 69
                 5.889938
70
                 7.17563
 71
                 7.158199
72
                 7.14081
73
                 7.123465
74
                 7.10616
75
                 7.088899
 76
                 7.071679
 77
                 7.054501
 78
                 7.037364
                 7.02027
 79
 80
                 7.003217
 81
                 6.986204
 82
                 6.969234
 83
                 6.952305
84
                 8.235416
 85
                 8.215412
                 8.195456
 86
 87
                 8.175548
 88
                 8.155688
 89
                 8.135876
 90
                 8.116114
 91
                 8.096398
 92
                 8.076731
                 8.057112
 93
 94
                 8.03754
 95
                 8.018015
 96
                 7.998539
 97
                 7.979109
                 9.259726
98
 99
                 9.237233
                 9.214794
 100
                                                 9.259726
Maximum residue
                                                 4.92204
Average residue
```

## DAILY ACCUMULATED PESTICIDE RESIDUES --- MULTP. APPL.

	concentration (ppm)		RH-7592 1.3
Half-life	of application		285 8
	on interval		10
Length of	simulation (day)		100
<b>.</b>	•		
DAY	RESIDUE (PPM)	•	
		- <u>-</u>	
1 0	1.3		
1	1.296842		
2	1.293692		
3	1.290549		
4	1.287414		··.
5	1.284287	*	
6	1.281167		
7	1.278055	•	
8	1.274951		
9	1.271854		1 · · · · · · · · · · · · · · · · · · ·
<b>10</b>	2.568764	s≠	
11	2.562524		
12	2.5563		
13	2.55009		
14	2.543895		
15	2.537716	a*	1
16 17	2.531551 2.525402		
18	2.525402		
19	2.513207		
3 <b>20</b>	3.807043		
<u> </u>	3.797795		i
22	3.78857		
23	3.779367		
24	3.770186		
25	3.761028		
26	3.751891		
27	3.742778		
28	3.733686		
29	3.724616		
<b>D</b> 30	5.015569		
31	5.003386		i de
32	4.991231		
33	4.979107		
34	4.967012		
35 36	4.954947		
36 37	4.94291 4.930904		
3 <i>7</i> 38	4.930904		
20	4.916926		
<b>5</b> 40	6.195057		
41	6.180009		
4.7	6 164006		

6.164996

6.135081

6.15002

42

43

```
6.105312
 46
                 6.090481
  47
  48
                 6.075686
                                 16 Compared + 19
                 6.060927
 49
                                                Yioc blooger cogo
 50
                 7.346204
                                 Secretasses
 51
                 7.328359
 52
                 7.310559
 53
                 7.2928
                 7.275084
 54
 55
                 7.257412
 56
                 7.239783
 57
                 7.222197
 58
                 7.204653
  59
                 7.187151
760
                 8.469693
 61
                 8.449119
                 8.428594
 62
 63
                 8.40812
  64
                 8.387696
  65
                 8.367321
                 8.346996
  66
  67
                 8.32672
                 8.306493
  68
  69
                 8.286315
  70
                 9.566187
 71
                 9.542949
 72
                 9.519768
 73
                 9.496642
  74
                 9.473574
  75
                 9.450561
                 9.427604
 76
  77
                 9.404704
  78
                 9.381859
  79
                 9.359069
  80
                 9.336334
                 9.313655
  81
  82
                 9.291031
                 9.268461
  83
                 9.245947
  84
                 9.223487
  85
  86
                 9.201082
  87
                 9.178732
                 9.156435
  88
  89
                 9.134192
                 9.112004
  90
  91
                 9.089871
                 9.067789
  92
                 9.045763
  93
  94
                 9.023789
                 9.001869
  95
                 8.980001
  96
  97
                 8.958188
                  8.936427
  98
  99
                  8.914719
  100
                  8.893066
                                                 9.566187
Maximum residue
                                                 6.2302
Average residue
```

# RN 3477-95

## EEB FENBUCONAZOLE LEVIEW Page \_\_\_\_ is not included in this copy. Pages 22 through 23 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

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