

US EPA ARCHIVE DOCUMENT



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICIAL RECORD  
HEALTH EFFECTS DIVISION  
SCIENTIFIC DATA REVIEWS  
EPA SERIES 361

JUN 27 1996

OFFICE OF  
PREVENTION, PESTICIDES, AND  
TOXIC SUBSTANCES

**MEMORANDUM**

**SUBJECT:** Dietary Exposure Analysis for Propiconazole in/on Berry Crop Group, Carrots and Onions (PP# 5FO4591).

**FROM:** Brian Steinwand *BS*  
Dietary Risk Evaluation Section  
Science Analysis Branch/HED (7509C)

**Through:** Elizabeth Doyle, Section Head *ED*  
Dietary Risk Evaluation Section  
SAB/Health Effects Division

**TO:** M. Metzger, Chief  
RCAB (7509C) *WBM*

**Action Requested**

Provide a dietary exposure analysis for the use of propiconazole in/on berries, carrots and onions (green and dry bulb). The petition requests but CBTS recommends against (due to data deficiencies) a tolerance of 1.0 ppm be established on berries, 8.0 ppm for green onions, 0.3 ppm for dry bulb onions, and 0.2 ppm for carrots (See memo, L. Kutney (6/14/96). However, CBTS recommends for the establishment of time limited tolerances at the above levels.

**Discussion**

For the purposes of this analysis, new tolerances on tree nuts were upgraded to published status.

**Toxicological Endpoint:**

The Reference Dose (RfD) used in the analysis is 0.013 mg/kg bwt/day, based on a NOEL of 1.25 mg/kg bwt/day from a one year dog feeding study with an uncertainty factor of 100 that demonstrated irritation in the stomach in males as an endpoint effect (See IRIS). The RfD has been approved by the HED RfD committee (7/15/87) and by the WHO (5/25/88). Propiconazole is classified as a Group C (possible human) carcinogen on 4/15/92, with quantification using the RfD (See IRIS).

## Residue Information

Tolerances for propiconazole are published in 40 CFR § 180.434. Tolerance level residues and 100 percent crop treated assumptions were made for the proposed commodities. Anticipated residues and percent crop treated information were used where available for this analysis. There are no known animal feed stock uses for proposed commodities. Consequently, secondary residues in meat, milk, poultry and eggs are not expected to be a problem.

## Results

A summary of the residue information considered in this analysis is attached as Table 1. A DRES chronic exposure analysis was performed using tolerance level residues and 100 percent crop treated information to estimate the Theoretical Maximum Residue Contribution (TMRC) for the general population and 22 subgroups. Anticipated residues and percent crop treated data were used to calculate the Anticipated Residue Concentration (ARC) for those same population subgroups for certain commodities. Summaries of the TMRCs, ARCs and their representations as percentages of the Reference Dose (RfD) are included as Table 2 and 3.

### Chronic Exposure Analysis

Exposure from Existing Tolerances for propiconazole:

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>%RfD</u>
U.S. Population	0.000638	4.9
Non-Nursing Infants (<1 yr old)	0.002095	16.1

Proposed new Tolerances on the proposed commodities:

U.S. Population	0.000108	.831
Non-Nursing Infants (<1 yr old)	0.000387	2.9

If the new tolerances on the proposed commodities are approved:

U.S. Population	0.000746	5.7
Non-Nursing Infants (<1 yr old)	0.002481	19.0

### **Conclusions**

The chronic analysis for propiconazole is not a worst case estimate of dietary exposure with all residues at tolerance level and 100 percent of the commodities assumed to be treated with propiconazole. This analysis has been refined, using anticipated residues and percent crop treated for some commodities, to give a more accurate estimate of the dietary risk from propiconazole. Thus, the chronic dietary risk exposure to propiconazole appears to be minimal for this petition on berries at 1.0 ppm, green onions at 8.0 ppm, dry bulb onions at 0.3 ppm, and carrots at 0.2 ppm, and does not exceed the RfD for any of the DRES subgroups.

### **Attachments**

cc: DRES; Caswell 323EE; PM-21 C. Welch; CBTS (L. Kutney)

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Banner/Tilt) Caswell #323EE CAS No. 60207-90-1 A-1, CODE: 122101 CFR No. 180.434	1yr feeding- dog NOEL = 1,2500 mg/kg 50.00 ppm LEL = 6,2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenic- ity in mice (male liver); negative in rats.	ADI UF -->100 OPP RfD = 0.013000 EPA RfD = 0.013000	Questions concerning dos- ing in the mouse study. Triazole-alanine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	5F04591	N 1.000000	1.000000		100.00	1.000000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	5F04591	N 1.000000	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	5F04591	N 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	5F04591	N 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	5F04591	N 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	70 RAW-FROZEN	5F04591	N 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	5F04591	N 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	21 COOKED-NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01011AA	CURRANTS	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01011AA	CURRANTS	21 COOKED-NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01011AA	CURRANTS	22 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	5F04591	N 1.000000	1.000000		100.00	1.000000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	5F04591	N 1.000000	1.000000		100.00	1.000000
01015AA	HUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	5F04591	N 1.000000	1.000000		100.00	1.000000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03001AA	ALMONDS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03001AA	ALMONDS	22 COOKED-FRESH OR FROZEN-BAKED	9F3740	A 0.100000	0.100000		100.00	0.100000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03002AA	BRAZIL NUTS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03002AA	BRAZIL NUTS	22 COOKED-FRESH OR FROZEN-BAKED	9F3740	A 0.100000	0.100000		100.00	0.100000
03003AA	CASHEWS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03003AA	CASHEWS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03004AA	CHESTNUTS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03005AA	FILBERTS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03005AA	FILBERTS	22 COOKED-FRESH OR FROZEN-BAKED	9F3740	A 0.100000	0.100000		100.00	0.100000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F3007	P 0.100000	0.050000	FIELD TRIAL	47.00	0.023500
03008AA	PECANS	21 COOKED-NFS	4F3007	P 0.100000	0.050000	FIELD TRIAL	47.00	0.023500
03008AA	PECANS	22 COOKED-FRESH OR FROZEN-BAKED	4F3007	P 0.100000	0.050000	FIELD TRIAL	47.00	0.023500
03008AA	PECANS	23 COOKED-FRESH-BOILED	4F3007	P 0.100000	0.050000	FIELD TRIAL	47.00	0.023500
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F3007	P 0.100000	0.050000	FIELD TRIAL	47.00	0.023500

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 2

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Banner/Tilt) Caswell #323EE CAS No. 60207-90-1 A.I. CODE: 122101 CFR No. 180.434	1yr feeding- dog NOEL= 1.2500 mg/kg 50.00 ppm LEL= 6.2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenic- ity in mice (male liver); negative in rats.	ADI OPP RD= 0.013000 EPA RD= 0.013000	Questions concerning dos- ing in the mouse study. Triazole-alanine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
03009AA	WALNUTS	10 RAW-FRESH OR NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03009AA	WALNUTS	21 COOKED-NFS	9F3740	A 0.100000	0.100000		100.00	0.100000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	9F3740	A 0.100000	0.100000		100.00	0.100000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9F3740	A 0.100000	0.100000		100.00	0.100000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9F3740	A 0.100000	0.100000		100.00	0.100000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	9F3758	P 1.000000	1.000000		100.00	1.000000
05001DA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	9F3758	P 1.000000	1.000000		100.00	1.000000
05002AA	CHEERRIES-FRESH	10 RAW-FRESH OR NFS	4F4321	A 1.000000	1.000000		100.00	1.000000
05002AA	CHEERRIES-FRESH	21 COOKED-NFS	4F4321	A 1.000000	1.000000		100.00	1.000000
05002AA	CHEERRIES-FRESH	31 COOKED-FRESH OR CANNED	4F4321	A 1.000000	1.000000		100.00	1.000000
05002AA	CHEERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	4F4321	A 1.000000	1.000000		100.00	1.000000
05002DA	CHEERRIES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	4F4321	A 1.000000	1.000000		100.00	1.000000
05002JA	CHEERRIES-JUICE	15 RAW-FRESH OR CANNED	4F4321	A 1.000000	1.000000		100.00	1.000000
05002JA	CHEERRIES-JUICE	21 COOKED-NFS	4F4321	A 1.000000	1.000000		100.00	1.000000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		13.00	0.130000
05004AA	PEACHES-FRESH	21 COOKED-NFS	9F3758	P 1.000000	1.000000		13.00	0.130000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	9F3758	P 1.000000	1.000000		13.00	0.130000
05004AA	PEACHES-FRESH	51 COOKED-FRESH OR CANNED	9F3758	P 1.000000	1.000000		13.00	0.130000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		13.00	0.130000
05004DA	PEACHES-DRIED	21 COOKED-NFS	9F3758	P 1.000000	1.000000		13.00	0.130000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	9F3758	P 1.000000	1.000000		100.00	1.000000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	9F3758	P 1.000000	1.000000		100.00	1.000000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	9F3758	P 1.000000	1.000000		100.00	1.000000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	9F3758	P 1.000000	1.000000		100.00	1.000000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06002AB	BANANAS-FRESH	21 COOKED-NFS	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06002DA	BANANAS-DRIED	21 COOKED-NFS	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000		100.00	0.100000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	8F3674	P 0.100000	0.100000		100.00	0.100000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	8F3674	P 0.100000	0.100000		100.00	0.100000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 3

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Banner/Tilt) Caswell #323EE CAS No. 60207-90-1 A.I. CODE: 122101 CFR No. 180.434	1yr feeding- dog MOEL = 1.2500 mg/kg 50.00 ppm LEL = 6.2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenic- ity in mice (male liver); negative in rats.	ADI UF -->100 OPP RfD= 0.013000 EPA RfD= 0.013000	Questions concerning dos- ing in the mouse study. Triazole-alanine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
060130A	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000		100.00	0.100000
060131A	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000		100.00	0.100000
060132A	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	8F3674	P 0.100000	0.100000		100.00	0.100000
060133A	PINEAPPLE-JUICE	21 COOKED-NFS	8F3674	P 0.100000	0.100000		100.00	0.100000
060134A	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	8F3674	P 0.100000	0.100000		100.00	0.100000
060160A	PLANTAINS	21 COOKED-NFS	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
060161A	PLANTAINS	23 COOKED-FRESH-BOILED	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
060162A	PLANTAINS	25 COOKED-FRESH-FRIED	4E3026	P 0.200000	0.050000	FIELD TRIAL	100.00	0.050000
130020A	CELERY	10 RAW-FRESH OR NFS	0F3869	P 5.000000	5.000000		100.00	5.000000
130021A	CELERY	21 COOKED-NFS	0F3869	P 5.000000	5.000000		100.00	5.000000
130160A	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	0F3869	P 5.000000	5.000000		100.00	5.000000
140030A	CARROTS	10 RAW-FRESH OR NFS	5F04591	N 0.200000	0.200000		100.00	0.200000
140031A	CARROTS	21 COOKED-NFS	5F04591	N 0.200000	0.200000		100.00	0.200000
140032A	CARROTS	23 COOKED-FRESH-BOILED	5F04591	N 0.200000	0.200000		100.00	0.200000
140033A	CARROTS	31 COOKED-FRESH OR CANNED	5F04591	N 0.200000	0.200000		100.00	0.200000
140034A	CARROTS	51 COOKED-CANNED	5F04591	N 0.200000	0.200000		100.00	0.200000
140070A	GARLIC	10 RAW-FRESH OR NFS	5F04591	N 0.300000	0.300000		100.00	0.300000
140071A	GARLIC	21 COOKED-NFS	5F04591	N 0.300000	0.300000		100.00	0.300000
140072A	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	5F04591	N 0.300000	0.300000		100.00	0.300000
140100A	LEERCS	31 COOKED-FRESH OR CANNED	5F04591	N 0.300000	0.300000		100.00	0.300000
140110A	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	5F04591	N 0.300000	0.300000		100.00	0.300000
140111A	ONIONS-DRY-BULB	21 COOKED-NFS	5F04591	N 0.300000	0.300000		100.00	0.300000
140112A	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	5F04591	N 0.300000	0.300000		100.00	0.300000
140113A	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	5F04591	N 0.300000	0.300000		100.00	0.300000
140114A	ONIONS-DRY-BULB	12 RAW-FRESH-DRIED	5F04591	N 0.300000	0.300000		100.00	0.300000
140170A	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	8F3674	P 0.100000	0.100000		6.00	0.006000
150050A	CORN,SHEET	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000		6.00	0.006000
150051A	CORN,SHEET	21 COOKED-NFS	8F3674	P 0.100000	0.100000		6.00	0.006000
150052A	CORN,SHEET	31 COOKED-FRESH OR CANNED	8F3674	P 0.100000	0.100000		6.00	0.006000
150060A	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	8F3654	P 0.200000	0.200000	Exp. 12/31/98	1.00	0.002000
150061A	PEANUTS-WHOLE	21 COOKED-NFS	8F3654	P 0.200000	0.200000	Exp. 12/31/98	1.00	0.002000
150062A	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	8F3654	P 0.200000	0.200000	Exp. 12/31/98	1.00	0.002000
160030A	MUSHROOMS	10 RAW-FRESH OR NFS	5E04437	P 0.100000	0.100000		100.00	0.100000
160031A	MUSHROOMS	21 COOKED-NFS	5E04437	P 0.100000	0.100000		100.00	0.100000
160032A	MUSHROOMS	31 COOKED-FRESH OR CANNED	5E04437	P 0.100000	0.100000		100.00	0.100000
160033A	MUSHROOMS	53 COOKED-CANNED-BOILED	5F04591	N 8.000000	8.000000		100.00	8.000000
160040A	ONIONS-GREEN	10 RAW-FRESH OR NFS	5F04591	N 8.000000	8.000000		100.00	8.000000
160041A	ONIONS-GREEN	21 COOKED-NFS	5F04591	N 8.000000	8.000000		100.00	8.000000
160042A	ONIONS-GREEN	25 COOKED-FRESH-FRIED	5F04591	N 8.000000	8.000000		100.00	8.000000
240010A	BARLEY	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	2.00	0.001000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 4

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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RfM (ppm)
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002SA	CORN SUGAR	21 COOKED-NFS	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	8F3674	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24002SA	CORN SUGAR	23 COOKED-FRESH-BOILED	2F4086	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24003AA	OATS	21 COOKED-NFS	2F4086	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24003AA	OATS	22 COOKED-FRESH-BAKED	2F4086	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24003AA	OATS	23 COOKED-FRESH-BOILED	2F4086	P 0.100000	0.100000	FIELD TRIAL	100.00	0.100000
24004AA	RICE-ROUGH	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24004AA	RICE-ROUGH	22 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24004AB	RICE-MILLED	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	4F3074	P 0.100000	0.050000	FIELD TRIAL	25.00	0.012500
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24005AA	RYE-ROUGH	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24005AA	RYE-ROUGH	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24005AA	RYE-ROUGH	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24005MA	RYE-FLOUR	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24005MA	RYE-FLOUR	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007AA	WHEAT-ROUGH	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007GA	WHEAT-GERM	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007GA	WHEAT-GERM	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007HA	WHEAT-BRAN	21 COOKED-NFS	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007HA	WHEAT-BRAN	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.050000	FIELD TRIAL	1.00	0.000500
24007MA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.010000	PROCESSING	1.00	0.000100
24007MA	WHEAT-FLOUR	21 COOKED-NFS	4F3074	P 0.100000	0.010000	PROCESSING	1.00	0.000100
24007MA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.010000	PROCESSING	1.00	0.000100
24007MA	WHEAT-FLOUR	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.010000	PROCESSING	1.00	0.000100
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	8F3674	P 0.100000	0.100000	PROCESSING	100.00	0.100000
270070A	PEANUTS-OIL	18 PROCESSED OIL	8F3654	P 0.200000	0.200000	Exp. 12/31/98	100.00	0.002000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	2E04037	P 0.300000	0.300000		100.00	0.300000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	2E04037	P 0.300000	0.300000		100.00	0.300000
28081AA	SEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	2E04037	P 0.300000	0.300000		100.00	0.300000
280810A	SEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	2E04037	P 0.300000	0.300000		100.00	0.300000



ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 5

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Banner/Title) Caswell #323EE CAS No. 60207-90-1 A.I. CODE: 122101 CFR No. 180.434	1yr feeding- dog NOEL= 1.2500 mg/kg 50.00 ppm LEL= 6.2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenic- ity in mice (male liver); negative in rats.	ADI UF -->100 OPP RfD= 0.013000 EPA RfD= 0.013000	Questions concerning dos- ing in the mouse study. Triazole-amine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	1F3974	P 0.050000	0.007000		100.00	0.007000
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	173974	P 0.050000	0.007000		100.00	0.007000
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	173974	P 0.050000	0.007000		100.00	0.007000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	173974	P 0.050000	0.007000		100.00	0.007000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	1F3974	P 0.050000	0.007000		100.00	0.007000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	1F3974	P 0.050000	0.007000		100.00	0.007000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	1F3974	P 0.050000	0.007000		100.00	0.007000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	1F3974	P 0.050000	0.007000		100.00	0.007000
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	1F3974	P 0.100000	0.460000		100.00	0.460000
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	1F3974	P 0.100000	0.460000		100.00	0.460000
53001DA	BEEF-DRIED	21 COOKED-NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	21 COOKED-NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	1F3974	P 0.100000	0.020000		100.00	0.020000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	1F3974	P 0.100000	0.020000		100.00	0.020000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	1F3974	P 2.000000	0.460000		100.00	0.460000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	1F3974	P 2.000000	0.420000		100.00	0.420000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	1F3974	P 0.100000	0.010000		100.00	0.010000
53001MA	BEEF-LEAN	21 COOKED-NFS	1F3974	P 0.100000	0.010000		100.00	0.010000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	1F3974	P 0.100000	0.010000		100.00	0.010000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	1F3974	P 0.100000	0.010000		100.00	0.010000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	1F3974	P 0.100000	0.010000		100.00	0.010000
53001MA	BEEF-LEAN	25 COOKED-FRESH-FRIED	1F3974	P 0.100000	0.010000		100.00	0.010000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 0.100000	0.460000		100.00	0.460000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 0.100000	0.460000		100.00	0.460000
53002FA	GOAT-FAT	25 COOKED-FRESH-BOILED	1F3974	P 0.100000	0.020000		100.00	0.020000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 2.000000	0.460000		100.00	0.460000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 2.000000	0.420000		100.00	0.420000
53002MA	GOAT-LEAN	25 COOKED-FRESH-BOILED	1F3974	P 0.100000	0.010000		100.00	0.010000
53002MA	GOAT-LEAN	23 COOKED-FRESH-FRIED	1F3974	P 0.100000	0.010000		100.00	0.010000
53003BA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 2.000000	0.460000		100.00	0.460000
53003BA	SHEEP-MEAT BYP	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53005FA	SHEEP-FAT	21 COOKED-NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	1F3974	P 2.000000	0.460000		100.00	0.460000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 6

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Bamber/Tilt) Caswell #323EE CAS No. 60207-90-1 A.I. CODE: 122101 CFR No. 180.434	1yr feeding- dog MOEL= 1.2500 mg/kg 50.00 ppm LEL= 6.2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenic- ity in mice (male liver); negative in rats.	ADI UF -->100 OPP RfD= 0.013000 EPA RfD= 0.013000	questions concerning dos- ing in the mouse study. Tiazole-alanine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	1F3974	P 2.000000	0.420000		100.00	0.420000
53005MA	SHEEP-LEAN	21 COOKED-NFS	1F3974	P 0.100000	0.010000		100.00	0.010000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	1F3974	P 0.100000	0.010000		100.00	0.010000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	1F3974	P 0.100000	0.460000		100.00	0.460000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	1F3974	P 0.100000	0.460000		100.00	0.460000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53006FA	PORK-FAT	21 COOKED-NFS	1F3974	P 0.100000	0.020000		100.00	0.020000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	1F3974	P 0.100000	0.020000		100.00	0.020000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	1F3974	P 0.100000	0.020000		100.00	0.020000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	1F3974	P 0.100000	0.020000		100.00	0.020000
53006KA	PORK-KIDNEY	21 COOKED-NFS	1F3974	P 2.000000	0.460000		100.00	0.460000
53006LA	PORK-LIVER	21 COOKED-NFS	1F3974	P 2.000000	0.420000		100.00	0.420000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	1F3974	P 2.000000	0.420000		100.00	0.420000
53006MA	PORK-LEAN	21 COOKED-NFS	1F3974	P 0.100000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	1F3974	P 0.100000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	1F3974	P 0.100000	0.010000		100.00	0.010000
53006BA	TURKEY-BYP	21 COOKED-NFS	4F3074	P 0.100000	0.000030	EXTRAPOLATED	100.00	0.000030
53006BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	4F3074	P 0.100000	0.000030	EXTRAPOLATED	100.00	0.000030
53008BA	TURKEY-ORGAN	21 COOKED-NFS	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
53008BA	TURKEY-ORGAN	25 COOKED-FRESH-FRIED	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
53008LA	TURKEY-ORGAN	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
53008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
53008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
53008MB	TURKEY+SKIN	21 COOKED-NFS	4F3074	P 0.100000	0.000007	EXTRAPOLATED	100.00	0.000007
53008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000007	EXTRAPOLATED	100.00	0.000007
53008MC	TURKEY-UNSPEC	21 COOKED-NFS	4F3074	P 0.100000	0.000007	EXTRAPOLATED	100.00	0.000007
53013BA	PULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	4F3074	P 0.100000	0.000030	EXTRAPOLATED	100.00	0.000030
53013LA	PULTRY,ORGAN	25 COOKED-FRESH-FRIED	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
53013MA	PULTRY,OTHR	21 COOKED-NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	21 COOKED-NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AB	EGGS-WHITE ONLY	21 COOKED-NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
53014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 323EE

DATE: 06/26/96

PAGE: 7

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Propiconazole (Banner/Tilt) Caswell #323EE CAS No. 60207-90-1 A.I. CODE: 122101 CFR No. 180.434	Yr feeding- dog NOEL= 1.2500 mg/kg 50.00 ppm LEL= 6.2500 mg/kg 250.00 ppm ONCO: C (HED); D (SAP)	Irritation of the stomach in males. Evidence of carcinogenicity in mice (male liver); negative in rats.	ADI UF -->100 OPP RD= 0.013000 EPA RD= 0.013000	Questions concerning dosing in the mouse study. Triazole-alanine is plant metabolite	HED reviewed 05/05/87 EPA verified 07/15/87 WHO reviewed 1987 EPA verified 05/25/88 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	4F3074	P 0.100000	0.000015	EXTRAPOLATED	100.00	0.000015
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	4F3074	P 0.100000	0.000030	EXTRAPOLATED	100.00	0.000030
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED	4F3074	P 0.200000	0.000030	EXTRAPOLATED	100.00	0.000030
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	4F3074	P 0.100000	0.000005	EXTRAPOLATED	100.00	0.000005
55015MB	CHICKEN+SKIN	21 COOKED-NFS	4F3074	P 0.100000	0.000007	EXTRAPOLATED	100.00	0.000007
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	4F3074	P 0.100000	0.000007	EXTRAPOLATED	100.00	0.000007

TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 06/26/96

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	EFFECT OF ANTICIPATED RESIDUES	STATUS
			ADI	UF			
Propiconazole (Banner/ilt)	1yr feeding - dog	Irritation of the stomach in males.	OPP Rfd= 0.013000	UF -->100	Questions concerning dosing in the mouse study.	ARC	HED revised 07/05/87
Caswell #323EE	NOEL= 1,2500 mg/kg	Evidence of carcinogenicity in mice (male liver); negative in rats.	EPA Rfd= 0.013000		Triazole-alanine is plant metabolite		EPA verified 07/15/87
CAS No. 60207-90-1	50.00 ppm						WHO revised 1987
A.I. CODE: 122101	LEL= 6,2500 mg/kg						EPA verified 05/25/88
CFR No. 180.434	250.00 ppm						On IRIS.
	ONCO: C (HED); D (SAP)						
POPULATION SUBGROUP							
U.S. POPULATION - 48 STATES			TOTAL TMRC (MG/KG BODY WEIGHT/DAY)	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	ARC	%RFD
			CURRENT TMRC*	NEW TMRC**			
U.S. POPULATION - SPRING SEASON			0.001780	0.001987	1.110777	0.000784	6.03377
U.S. POPULATION - SUMMER SEASON			0.002043	0.001954	1.335777	0.000801	6.16258
U.S. POPULATION - FALL SEASON			0.001783	0.002194	1.161985	0.000876	6.74188
U.S. POPULATION - WINTER SEASON			0.001760	0.001902	1.4632685	0.000719	5.53455
NORTHEAST REGION			0.001917	0.002071	15.470954	0.000716	5.50820
NORTH CENTRAL REGION			0.001855	0.002001	15.927200	0.000829	6.37388
SOUTHERN REGION			0.001617	0.001725	15.392592	0.000777	5.97815
WESTERN REGION			0.002108	0.002285	13.268454	0.000627	4.82655
HISPANICS			0.002225	0.002369	17.575285	0.000974	7.49082
NON-HISPANIC WHITES			0.001847	0.001996	18.224146	0.000890	6.84869
NON-HISPANIC BLACKS			0.001595	0.001681	15.355338	0.000799	6.14802
NON-HISPANIC OTHERS			0.002079	0.002263	12.930285	0.000573	4.41001
NURSING INFANTS (< 1 YEAR OLD)			0.003035	0.003281	17.406600	0.000923	7.10218
NON-NURSING INFANTS (< 1 YEAR OLD)			0.007674	0.008170	1.892292	0.001063	8.17542
FEMALES (13+ YEARS, PREGNANT)			0.001348	0.001445	62.846285	0.002591	19.92782
FEMALES 13+ YEARS, NURSING			0.001718	0.001863	11.114215	0.000617	4.74540
CHILDREN (1-6 YEARS OLD)			0.004094	0.004373	14.332869	0.000848	6.52630
CHILDREN (7-12 YEARS OLD)			0.002718	0.002900	33.639192	0.001475	11.34447
MALES (13-19 YEARS OLD)			0.001716	0.001830	22.305031	0.001025	7.88246
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)			0.001443	0.001540	14.075985	0.000636	4.89475
MALES (20 YEARS AND OLDER)			0.001333	0.001451	11.842600	0.000585	4.50167
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)			0.001302	0.001417	11.160346	0.000613	4.71635
					10.896746	0.000566	5.04835

\*Current TMRC does not include new or pending tolerances.  
 \*\*New TMRC includes new, pending, and published tolerances.

## TABLE 3

TOLERANCE ASSESSMENT SUMMARY FOR Propiconazole (Banner/Tilt)      DATE: 06/26/96  
 USING ANTICIPATED RESIDUES  
 CASWELL #323EE

## ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES


EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000638	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	4.909	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000108	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.831	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000746	MG/KG/DAY
THE NEW ARC WILL OCCUPY	5.740	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000038	MG/KG/DAY
THIS ARC WILL OCCUPY	0.294	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000784	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	6.034	% OF THE ADI.

## ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (&lt; 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.002095	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	16.112	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000387	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	2.975	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.002481	MG/KG/DAY
THE NEW ARC WILL OCCUPY	19.087	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000109	MG/KG/DAY
THIS ARC WILL OCCUPY	0.841	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.002591	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	19.928	% OF THE ADI.

**END OF DOCUMENT**

Please read instructions on reverse before completing form. Form Approved, OMB No. 2070-0060. Approval expires 2-28-95

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> <b>Amendment</b> <input type="checkbox"/> Other	OPP Identifier Number  <span style="font-size: 1.5em;">236497</span>
----------------------------------------------------------------------------------	---------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------

**Application for Pesticide - Section I**

1. Company/Product Number 100-702	2. EPA Product Manager Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Orbit™ Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)


*Crop for any (Blackberry or any) Raspberry and blueberry*

Requesting registration for use of Orbit on berries.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container</b>	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 qt., 1 gal.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>	

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (include Area Code) (910) 632-2993
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Manager	(Stamped)
4. Typed Name Gregory R. Watson	5. Date August 29, 1995	

SUPPLEMENTAL LABELING

Page 1 of 2

ORBIT™ FUNGICIDE  
EPA REG. NO. 100-702

FOR USE ON BERRIES

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole ..... 41.8%

Inert Ingredients: ..... 58.2%

Total ..... 100.0%

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Orbit label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

---

**DIRECTIONS FOR USE**

---

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

---

**Berries**

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**Blueberries:**

Orbit can be applied by either aerial or ground equipment. For best results, sufficient water volume should be used to provide thorough and uniform plant coverage. When using aerial application a minimum of 5-10 gals./A is recommended. With ground equipment a minimum of 20-50 gals./A is recommended.

**Mummyberry disease** (*Monilinia vaccinicorymbosi*) - Apply 6 fl. oz. of Orbit per A at leaf bud break and repeat in 7-10 days. Make a third application at pink bud and repeat in 7-10 days in early bloom. Make a fifth application between full bloom and early petal fall.



Orbit (EPA Reg. No. 100-702) / Supplemental Labeling  
Page 2 of 2

**Leaf and Stem Spot (*Septoria albopunctata*) and Rust (*Pucciniastrum vaccinii*)** - Apply 6 fl. oz. of Orbit per A beginning when conditions favor disease development. Repeat applications on a 4-week spray interval.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 fl. oz. Orbit per acre per season. (2) Do not apply within 30 days of harvest.

**Blackberry\*, Elderberry, Huckleberry, Loganberry, Raspberry (Black and Red)**

\* - Includes bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, himalayaberry, hullberry, lavacaberry, lowberry, lucretiberry, mammoth blackberry, marion berry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry.

**Leaf and Cane Spot:** Apply 6 fl. oz. of Orbit per A as a delayed dormant spray after training in the spring. Repeat this application in the late spring, again at bud break, and again once flowering had begun. A total of 5 applications using the 6 fl. oz. rate may be applied.

**Powdery Mildew:** Apply 6 fl. oz. of Orbit per A at 5 to 10% bloom. Repeat this application at full bloom, and on a 14 day interval while conditions are favorable for disease development. A total of 5 applications using the 6 fl. oz. rate may be applied.

**Currant, Gooseberry**

**Leaf Spot:** Apply 6 fl. oz. of Orbit per A just after harvest. Repeat this application prior to bloom and after petal fall. A total of 5 applications using the 6 fl. oz. rate may be applied.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 fl. oz. Orbit per acre per season. (2) Do not apply within 30 days of harvest.

Orbit™ trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

©1995 Ciba-Geigy Corporation

Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC

CGA

SUPPLEMENTAL LABELING

(Note: 4 fl. oz. packet size)

Page 1 of 2

ORBIT™ GEL FUNGICIDE

EPA REG. NO. 100-737

FOR USE ON ALMONDS AND FILBERTS

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole . . . . .	41.8%
-------------------------------------------------------------------------------------------	-------

<u>Inert Ingredients:</u>	<u>58.2%</u>
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Total	100.0%
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KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Orbit Gel label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

General Information

Orbit Gel is a broad spectrum fungicide for the control of certain diseases in non-bearing citrus, members of the Tree Nuts Crop Grouping, and certain stone fruit.

*(Refer to the Mixing Procedures section of the Orbit™ Gel (EPA Reg. No. 100-737) label for a statement concerning the use of products not registered for use on almonds. This labeling reads as follows:*

*If using Orbit Gel in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No*

SUPPLEMENTAL LABELING  
Orbit Gel / Almonds and Filberts  
Page 2 of 2

*label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing.*

---

**Almonds**

---

For control of brown rot blossom blight, apply 4 - 8 fl. oz. of Orbit Gel/A at 5-10% bloom and 50-100% bloom. **Under sever disease conditions, use the highest rate.**

**Note:** 1) Orbit Gel is most effective when applied and allowed to dry before a rainfall. 2) Orbit Gel can be applied by either ground or aerial application. For ground applications, a minimum of 100 gal./A of water is recommended. For aerial applications, a minimum of 20 gal./A of water is recommended. 3) **Do not graze livestock in treated areas or cut treated cover crops for feed.**

---

**Hazelnuts (Filbert)**

---

**Eastern Filbert Blight (*Anisogramma anomala*) - Apply 5-8 fl. oz. of Orbit Gel/A in sufficient water to obtain thorough coverage. Begin applications when green leaf tissue becomes visible and continue on 2-3 week intervals. Under severe disease conditions, use the higher rate and the shorter interval.**

**Important:** (1) Do not apply more than 32 fl. oz. of Orbit Gel per acre per season. (2) Under certain conditions, Orbit Gel applications may cause smaller and / or greener leaves. Yields of hazelnuts displaying these characteristics have not been reduced due to propiconazole Orbit Gel treatments.

Orbit™ trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

©1995 Ciba-Geigy Corporation

Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC 27419

CGA

October 18, 1995

**END OF DOCUMENT**

Please read Instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

<b>(A)</b> 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460 <b>Application for Pesticide:</b>	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number <div style="font-size: 24pt; font-weight: bold; text-align: center;">197443</div>
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

**Section I**

1. Company/Product Number 100-737	2. EPA Product Manager Jackson (acting)	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tilt® Gel Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba Plant Protection Ciba-Geigy Corporation P. O. Box 18300 Greensboro, NC 27417-8300 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. 100-737  Product Name Tilt Gel Fungicide	

**Section II**

<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of addition of 4 fl. oz. package size and addition of Orbit™ Gel brand name to EPA Reg. No. 100-737.

**Section III**

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container</b>	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted.		If "Yes," Unit Package wgt. _____	No. per container _____	If "Yes," Package wgt. (4.27 oz.)	No. per container 10
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container 40 FL. OZ. (10 X 4 FL. OZ.)		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label Is Affixed To Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other ( _____ )	

**Section IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory R. Watson	Title Regulatory Manager	Telephone No. (Include Area Code) 910-632-2933

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Data Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Gregory R. Watson	5. Date 1/11/94	

04/23/96

Reference Files System

Page: 1

## Chemistry Data Report

Active Ingredient Code: 122101  
-----

## Full Chemical Name:

1-((2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,  
2,4-triazole

Reregistration Case No.: 3125

FIFRA 88 List: C

Case Name:

Propiconazole

Toxicology Caswell Nr.: 323EE

CAS Number: 60207-90-1

Product Manager: 21 Connie Welch

Review Manager: RICHARD GEBKEN

OCM Compliance Manager:

Chemical Name Type: Report Chemical Name

Type Synonymous Name  
-----

C Propiconazole

R CAS Reg. No. 60207-90-1

S 1H-1,2,4-Triazole,  
1-((2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-

T Tilt

T Desmel

T Banner

T CGA-64250

323EE

CAS 60207-90-1

CFED 6a2 Reported

AED

3125 Case

04/23/96

REFERENCE FILES SYSTEM

PAGE 1

## ACTIVE PRODUCTS CONTAINING THE ACTIVE INGREDIENT 122101

1-((2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole

PERCENT	IDENT. NO.	STATUS	FORM CODE	PRODUCT NAME
41.8000	100-617	A	12	TILT FUNGICIDE
88.0000	100-618	A	01	CGA-64250 TECHNICAL
14.3000	100-641	A	12	BANNER
41.8000	100-702	A	12	ORBIT FUNGICIDE
41.8000	100-736	A	06	BANNER GL
41.8000	100-737	A	12	TILT GEL FUNGICIDE
14.3000	100-741	A	15	ALAMO FUNGICIDE
14.3000	100-772	A	02	PPZ 14.3% MG
01.5500	100-773	A	14	PPZ 1.55% HG FUNGICIDE
00.5000	1409-65	A	16	WOODLIFE P WOOD PRESERVATIVE
14.3000	7946-17	A	16	PROPISOL
88.0000	43813-13	A	02	WOCOSIN TECHNICAL
23.6000	43813-15	A	12	SAFETRAY P
23.6000	43813-16	A	12	WOCOSIN 250 EC
41.8000	FL88001600	A	12	TILT FUNGICIDE
41.8000	FL94000500	A	12	ORBIT FUNGICIDE
41.8000	GA94001000	A	12	TILT FUNGICIDE
41.8000	HI88000300	A	12	TILT FUNGICIDE
25.2000	HI91000900	A	12	TILT 250 EC
41.8000	ID95001200	A	12	TILT FUNGICIDE
41.8000	IL95000100	A	12	TILT FUNGICIDE
41.8000	MI95000700	A	12	TILT FUNGICIDE
41.8000	OK94000300	A	12	TILT FUNGICIDE
41.8000	OR95001800	A	12	TILT FUNGICIDE
41.8000	OR96000700	A	12	TILT GEL FUNGICIDE
41.8000	TX88000100	A	12	TILT FUNGICIDE
41.8000	TX94000900	A	12	TILT FUNGICIDE
41.8000	WA95003300	A	12	TILT FUNGICIDE

DP BARCODE: D219664

CASE: 287013  
 SUBMISSION: S494467

DATA PACKAGE RECORD  
 BEAN SHEET

DATE: 05/07/96  
 Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: TOLERANCE PET      ACTION: 230 F PET RAW AGRI COMMO  
 RANKING : 0 POINTS ()  
 CHEMICALS: 122101 Propiconazole

ID#: 5F04591  
 COMPANY: CIBA-GEIGY CORP  
 PRODUCT MANAGER: 21 CONNIE WELCH      703-308-8470      ROOM: CS1  
 PM TEAM REVIEWER: KATHRYN SCANLON      703-305-7382      ROOM: CM2      233  
 RECEIVED DATE: 09/06/95      DUE OUT DATE: 05/03/96

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 219664      EXPEDITE: N      DATE SENT: 09/28/95      DATE RET.: / /  
 CHEMICAL: 122101 Propiconazole  
 DP TYPE: 001 Submission Related Data Package

	CSF: N		LABEL: Y		
ASSIGNED TO	DATE IN		DATE OUT	ADMIN DUE DATE:	03/06/96
DIV : HED	09/29/95		/ /	NEGOT DATE:	/ /
BRAN: TSCB	10/03/95		/ /	PROJ DATE:	06/14/96
SECT: TS-2	04/18/96		/ /		
REVR :	04/18/96		/ /		
CONTR:	/ /		/ /		

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Please coordinate and route for review this submission for tolerances for propiconazole in members of the berry croup grouping, carrots, onions (green)/onions(dry bulb).  
 Attached are data voumes with MRIDs 43786401-4, Sections A-G, labels for the products, and other relevant materials.

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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**END OF DOCUMENT**

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Registration</b> <b>Amendment</b> Other	OPP Identifier Number <span style="font-size: 1.5em;">236494</span>
	<b>Application for Pesticide - Section I</b>			

1. Company/Product Number 100-617	2. EPA Product Manager Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tilt® Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

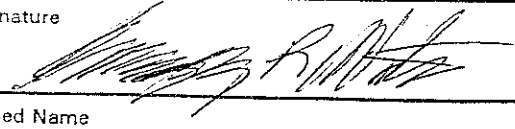
**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Requesting registration for use of Tilt on carrots and onions.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 qt., 1 gal., 15 gal.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (Include Area Code) (910) 632-2993
2. Signature 		6. Date Application Received (Stamped)
3. Title Senior Regulatory Manager		
4. Typed Name Gregory R. Watson		5. Date August 29, 1995

SUPPLEMENTAL LABELING

Page 1 of 3

TILT® FUNGICIDE  
EPA REG. NO. 100-617

FOR USE ON CARROTS AND ONIONS

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole ..... 41.8%

Inert Ingredients: ..... 58.2%

Total ..... 100.0%

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Tilt label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

Carrots

**Tilt Alone for Foliar Disease Control**

**Leaf Blight (*Cercospora carotae*) and Powdery Mildew (*Erysiphe polygoni*)** - Apply 4 fl. oz. of Tilt per A when conditions favor disease development. Continue applications on a 7-10 day interval, using the shorter interval when disease conditions are severe. If desired, a spreader sticker may be used with Tilt.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 16 fl. oz. of Tilt per acre per season. (2) Do not apply within 14 days of harvest.

Tilt (EPA Reg. No. 100-617) / Supplemental Labeling  
Page 2 of 3

**Tilt Plus Chlorothalonil for Foliar Disease Control**

**Leaf Blights** (*Alternaria dauci*, *Cercospora carotae*) and **Powdery Mildew** (*Erysiphe polygoni*) - Combinations of Tilt with products containing chlorothalonil may be used for leaf blight and powdery mildew control. Apply 2 fl. oz. of Tilt as a tank mixture with 0.75 lb. active ingredient of chlorothalonil per acre. Begin applications when conditions favor disease development. Continue applications on a 7-10 day spray interval.

Important: For additional information on the correct amount of formulated chlorothalonil product for this tank mixture use, consult the table in the peanut section of the Tilt label. To avoid possible illegal residues: (1) Do not apply more than 16 fl. oz. of Tilt per A per season. (2) Do not apply within 14 days of harvest.

---

**Dry Bulb Onions\*, Green Onions \*\*, and Onions Grown for Seed**

---

\* - Includes garlic, onions (dry bulb), and shallots (dry bulb)

\*\* - Includes green onions, leeks, spring onions or scallions, Japanese bunching onions, green shallots, or green eschalots

**Tilt Alone for Foliar Disease Control**

**Purple Blotch Control** (*Alternaria porri*) and **Botrytis Leaf Blight Suppression** (*Botrytis squamosa*) - Apply 4-8 fl. oz. of Tilt per A in sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7-10 day interval. Use the higher rate and shorter interval when disease conditions are severe. To achieve optimum disease control use a wetting agent or spreader-sticker.

Important: To avoid possible illegal residues: (1) Do not apply more than 16 fl. oz of Tilt per acre per season. (2) Tilt may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.

**Tilt Plus Tank Mixtures for Foliar Disease Control**

**Purple Blotch** (*Alternaria porri*) and **Botrytis Leaf Blight** (*Botrytis squamosa*) Control - Apply 2-4 fl. oz. of Tilt per A in combination with another fungicide registered for control of Botrytis Leaf Blight or Purple Blotch of dry bulb onions, green onions, or onions grown for seed. Foliar applications should be made using sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7 day interval. Use the higher rate when disease conditions are severe.

Important: To avoid possible illegal residues: (1) Do not apply more than 16 fl. oz of Tilt per acre per season. (2) Tilt may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.

Tilt (EPA Reg. No. 100-617) / Supplemental Labeling  
Page 3 of 3

Tilt® trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

©1995 Ciba-Geigy Corporation

Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC

CGA

Note:  $T_{1/2} \equiv$  Orbit  
(same formulation)

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617	3. FORMULATOR'S EXEMPTION SELECTED: YES ___ NO <u>X</u>		4. PAGE 1 OF 11			
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT (I): 1-[(2,4-dichlorophenyl)-4-propyl]-1, 3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT					10.	
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
5158.120	PRODUCT CHEMISTRY							
61-1	Identity of ingredients	Yes	1/28/81					2 4 4 2 6 8
61-2	Statement of composition	Yes	1/28/81					2 4 4 2 6 8
61-3	Discussion of formation of ingredients	Yes	1/28/81					2 4 4 2 6 8
62-1	Preliminary analysis						N.A. (1)	
62-2	Certification of limits	Yes	1/28/81					2 4 4 2 6 8
62-3	Analytical methods for enforcement limits	Yes	1/28/81					2 4 4 2 6 8
63-2	Color	Yes	1/28/81 & 12/09/83					2 4 4 2 6 7 & 0 7 2 2 1 9
63-3	Physical state	Yes	1/28/81 & 12/09/83					2 4 4 2 6 7 & 0 7 2 2 1 9
63-4	Odor	Yes	1/28/81 & 12/09/83					2 4 4 2 6 7 & 0 7 2 2 1 9
63-5	Melting point							
63-6	Boiling point	Yes	1/28/81					2 4 4 2 6 7
63-7	Density, bulk-density, or specific gravity	Yes	1/28/81				N.A. (2)	2 4 4 2 6 7 & 2 4 4 2 6 8

(1) Not produced by an integrated formulation system.  
(2) Technical is not a solid at room temperature.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		4. PAGE 2 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[12-(2,4-dichlorophenyl)-4-propyl-1, 3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9. SOURCE OF DATA SATISFYING REQUIREMENT						10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
		9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	
5158.120	PRODUCT CHEMISTRY (Continued)							
63-8	Solubility	Yes	1/28/81					2 4 4 2 6 7
63-9	Vapor pressure	Yes	1/28/81					2 4 4 2 6 7
63-10	Dissociation constant	Yes	1/28/81					2 4 4 2 6 7
63-11	Octanol/water partition coefficient	Yes	12/09/83					0 7 2 2 1 9 6
63-12	pH	Yes	12/09/83					2 4 4 2 6 8
63-13	Stability	Yes	1/28/81					2 4 4 2 6 7
63-14	Oxidizing/reducing reaction	Yes	1/28/81					2 4 4 2 6 8
63-15	Flammability	Yes	1/28/81					2 4 4 2 6 8
63-16	Explosibility	Yes	12/09/83					0 7 2 2 1 9
63-17	Storage stability	Yes	1/28/81					2 4 4 2 6 8
63-18	Viscosity	Yes	1/28/81					2 4 4 2 6 8
63-19	Miscibility	Yes	1/28/81					2 4 4 2 6 8
63-20	Corrosion characteristics	Yes	1/28/81					2 4 4 2 6 8
63-21	Dielectric breakdown voltage	Yes	1/28/81					2 4 4 2 6 8
								N.A. (3)

(3) Not used around electrical equipment.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES ___ NO <u>X</u>		4. PAGE 3 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[[2-(2,4-dichlorophenyl)-4-propyl-], 3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MKID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.125	RESIDUE CHEMISTRY							
171-2	Chemical identity	Yes	1/28/81 & 12/09/83					2 4 4 2 6 7 & 0 7 2 2 1 9
171-3	Directions for use	Yes						Submitted Herein
171-4	Nature of residue - plants	Yes	12/09/83					(4)
171-4	Nature of residue - livestock	Yes	12/09/83 & 2/21/91					(5)
171-4	Residue analytical method	Yes	6/16/88 & 2/21/91					40022401 40100101 40154501 40180701 40692203 40692204 40692206 41823303 41822304
171-4	Magnitude of residues in fish	Yes						41819801
171-4	Magnitude of residues in processed food/feed						N.A. (6)	
171-4	Magnitude of residues in meat/milk/poultry/eggs	Yes	3/30/84					0 7 2 5 5 6 1 3 7 8 6 1
171-5	Reduction of residue						N.A. (7)	

(4) 0074496, 0074497, 0074498, 0074500, 0074501, 0074502, and EPA Acc. No. 072213.  
(5) 0067905, 0074503, and EPA Acc. No. 072214; 41823301, 41823302, 41823304, 42835001, 42983001.



DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		4. PAGE 4 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/25</u> NO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[[2-(2,4-dichlorophenyl)propyl]-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.130	ENVIRONMENTAL FATE							
161-1	Hydrolysis	Yes	1/28/81					0 0 0 6 7 9 0 1
161-2	Photodegradation in water	Yes	1/28/81					2 4 4 2 6 9
161-3	Photodegradation in soil	Yes	1/28/81					0 0 0 6 7 9 0 2
161-4	Photodegradation in air						N.A. (8)	
162-1	Aerobic soil metabolism	Yes	1/28/81 & 12/09/83					0 0 0 6 7 9 0 8 0 0 1 3 3 3 7 5 0 0 1 3 3 3 7 6 0 0 1 2 9 9 1 4
162-2	Anaerobic metabolism	Yes	12/09/83					0 0 0 6 7 9 0 8
162-3	Anaerobic aquatic metabolism	Yes	3/13/84					2 5 2 6 4 6
162-4	Aerobic aquatic metabolism	Yes	7/24/92					4 2 4 1 5 1 0 2
163-1	Adsorption/desorption and leaching	Yes	3/13/84 6/5/92					2 5 2 6 4 6 4 2 3 4 7 9 0 1
163-2	Volatility in lab		1/28/81					0 0 0 6 7 9 0 3
163-3	Volatility in field							0 0 0 6 7 9 0 6
164-4	Soil dissipation	Yes	12/17/85					0 0 0 6 7 9 0 7
							N.A. (8)	
							N.A. (8)	
								0 0 1 5 5 6 4 2
								0 0 1 2 9 9 1 3

(8) This end-use product is not intended for orchard or field vegetable crop uses that involve significant exposure to workers.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES ___ NO <u>X</u>		4. PAGE 5 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
S158.130	ENVIRONMENTAL FATE (Continued)							
164-2	Aquatic sediment dissipation	Yes	3/13/84 11/17/92					2 5 2 6 4 6 2 5 2 6 4 7 4 2 5 6 5 5 0 1 4 2 5 6 5 5 0 2 0 0 1 5 5 6 4 3 2 5 2 6 4 6 2 5 2 6 4 7
164-5	Soil long-term dissipation	Yes	12/17/85					
165-1	Confined rotational crop studies	Yes	3/13/84					
165-2	Field rotational crop studies	Yes	3/13/84					0 0 1 3 8 2 6 6
165-4	Fish accumulation	Yes	1/28/81 8/20/81 12/09/83					2 4 4 2 6 9 2 4 4 2 7 0 2 4 5 7 0 8 0 0 1 3 3 3 9 4

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES ___ NO <u>X</u>		4. PAGE 6 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.135	TOXICOLOGY							
81-1	Acute oral LD-50 - rat	Yes	1/28/81					0 0 0 6 7 9 1 5
81-2	Acute dermal LD-50	Yes	1/28/81					0 0 0 6 7 9 1 6
81-3	Acute inhalation LC-50 - rat	Yes	1/28/81					0 0 0 6 7 9 1 9
81-4	Primary eye irritation - rabbit	Yes	1/28/81					0 0 0 6 7 9 1 7
81-5	Primary dermal irritation	Yes	1/28/81					0 0 0 6 7 9 1 8
81-6	Dermal sensitization	Yes	1/28/81					0 0 0 6 7 9 2 0
81-7	Acute delayed neurotoxicity - hen						N.A. (9)	
82-1	90-day feeding - rodent, nonrodent	Yes	1/28/81					0 0 0 5 8 6 0 6 0 0 0 5 8 6 0 7 0 0 1 1 6 5 9 1
82-2	21-day dermal							
82-3	90-day dermal						N.A. (10)	
82-4	90-day inhalation - rat						N.A. (11)	
82-5	90-day neurotoxicity						N.A. (12)	
83-1	Chronic feeding - two spp. rodent and nonrodent	Yes	7/15/83					0 0 1 2 9 9 1 8 0 0 1 2 9 5 7 0 0 0 1 5 1 5 1 5
83-2	Oncogenicity - two spp.	Yes	7/15/83					0 0 1 2 9 9 1 8 0 0 1 2 9 5 7 0 0 0 1 5 1 5 1 5

(9) Not an organophosphate compound.  
 (10) Human exposure is not purposeful.  
 (11) Use does not result in repeated inhalation exposure at concentration likely to be toxic.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		1. PAGE 7 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/27/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[[2-(2,4-dichlorophenyl)-4-p-opyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.135	TOXICOLOGY (Continued)							
83-3	Teratogenicity - two spp.	Yes	1/28/81 11/05/87 11/05/87 1/28/81 10/20/86					0 0 0 5 8 6 0 4 4 0 4 2 5 0 0 1 4 0 4 2 5 0 0 2 0 0 0 5 8 6 0 5 0 0 1 6 4 8 0 0
83-1	Reproduction - two-generation	Yes	9/13/85					0 0 1 5 1 5 1 4
84-2	Gene mutation	Yes	1/28/81 12/09/83					0 0 0 5 8 6 0 1 0 0 1 3 3 3 4 2
84-3	Chromosomal aberration	Yes	1/28/81 12/09/83					0 0 0 5 8 6 0 2 0 0 0 5 8 6 0 3 0 0 1 3 3 3 4 5 0 0 1 3 3 3 4 6
84-2	Other mechanisms of mutagenicity	Yes	12/09/83					0 0 1 3 3 3 4 7 0 0 1 3 3 3 4 8
85-1	General metabolism	Yes	12/09/83					0 0 1 6 4 7 9 8
86-1	Domestic animal safety						N.A. (13)	

(13) Domestic animals are not routinely exposed to this product.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		4. PAGE 8 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[[[2-(2,4-dichlorophenyl)-4-p-copyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.140	REENTRY PROTECTION							
132-1	Foliar dissipation	Yes	12/09/83 & 3/13/84					0 7 2 2 2 4, 0 7 2 2 2 5, 2 5 2 6 4 6
132-1	Soil dissipation							
133-3	Soil dissipation Dermal exposure	Yes	12/09/83 & 3/13/84				N.A. (14)	0 7 2 2 2 4, 0 7 2 2 2 5, 2 5 2 6 4 6
133-4	Inhalation exposure	Yes	12/09/83 & 3/13/84					0 7 2 2 2 4, 0 7 2 2 2 5, 2 5 2 6 4 6

(14) No substantial exposure to residues sorbed to soil.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		4. PAGE 9 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-((2-(2,4-dichlorophenyl)-4-propyl-1, 3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.145	WILDLIFE AND AQUATIC ORGANISM DATA							
71-1	Avian oral LD-50	Yes	1/28/81					00067926
71-2	Avian dietary LC-50	Yes	1/28/81					00079689
71-3	Wild animal toxicity							00067927
71-4	Avian reproduction	Yes	12/09/83				N.A. (15)	00079690
71-5	Simulated/actual field tests-mammals & birds	Yes	12/09/83					00133366
72-1	Freshwater fish LC-50	Yes	1/28/81				N.A. (15)	00133367
			12/09/83					00067922
			12/09/83					00067923
			1/28/81					00067924
			12/09/83					00132922
			12/09/83					00132924
			1/28/81					00132925
72-2	Acute LC-50 - freshwater invertebrates	Yes	12/09/83					00067925
			12/09/83					00132931
								00132932

(15) Not required based on acute and subacute testing, use pattern, and pertinent environmental fate characteristics.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Tilt® Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES _____ NO <u>X</u>		4. PAGE 10 OF 11		
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
158-145	WILDLIFE AND AQUATIC ORGANISM DATA (Cont'd.)							
72-3	Acute LC-50 - estuarine and marine organisms	Yes	12/09/83					0 0 1 3 2 9 3 3
72-4	Fish early life stage and aquatic invertebrate life-cycle	Yes	12/09/83					0 0 1 3 2 9 3 4
72-5	Fish - life-cycle	Yes	5/01/87					0 0 1 3 3 3 6 4
72-6	Aquatic organism accumulation	Yes	1/28/81					4 0 1 8 3 3 1 0
			8/20/81					2 4 4 2 6 9
			12/09/83					2 4 4 2 7 0
								2 4 5 7 0 8
72-7	Simulated/actual field tests - aquatic organisms						N.A. (16)	0 0 1 3 3 3 9 4

(16) Significant concentrations are not likely to occur in aquatic environments or accumulate in aquatic organisms.

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT


1. PRODUCT NAME: Tilt Fungicide		2. EPA REG. NO./FILE SYMBOL 100-617		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 11 OF 11	
5. APPLICANT'S NAME AND ADDRESS: Ciba Plant Protection Ciba-Geigy Corporation Post Office Box 18300 Greensboro, NC 27419		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/88</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[1,2-(2,4-dichlorophenyl)-4-propyl]-3,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole			
8. DATA REQUIREMENTS							
9. SOURCE OF DATA SATISFYING REQUIREMENT							
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)
158.155	NONTARGET INSECT						
141-1	Honeybee acute contact LD-50						
141-2	Honeybee - toxicity of residues on foliage						N.A. (17)
141-5	Field testing for pollinators						N.A. (17)
							434267-02

(17) Honeybee exposure does not occur.



Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

 <p style="text-align: center;">United States <b>Environmental Protection Agency</b> Washington, DC 20460</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><b>Registration</b></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><b>Amendment</b></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><b>Other</b></td> </tr> </table>	<input type="checkbox"/>	<b>Registration</b>	<input checked="" type="checkbox"/>	<b>Amendment</b>	<input type="checkbox"/>	<b>Other</b>	OPP Identifier Number  <h1 style="text-align: center;">236499</h1>
<input type="checkbox"/>	<b>Registration</b>							
<input checked="" type="checkbox"/>	<b>Amendment</b>							
<input type="checkbox"/>	<b>Other</b>							

**Application for Pesticide - Section I**

1. Company/Product Number 100-618	2. EPA Product Manager Welch	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CGA-64250 Technical	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.


**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Requesting tolerances and use of propiconazole (CGA-64250) technical end-use products on berries, carrots and onions.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt    No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container MUP, no retail sales	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (Include Area Code) (910) 632-2993
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Manager	
4. Typed Name Gregory R. Watson	5. Date August 29, 1995	

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 1 OF 14	
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, North Carolina 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/27/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S) 1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl)-1-H-1,2,4-triazole; CGA-64250			
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT				10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)
\$158.150	PRODUCT CHEMISTRY						
61-1	Identity of ingredients	Yes	01/28/81 04/08/88				244267 40583701
61-2	Statement of composition	Yes	01/28/81 04/08/88				00067960 00067961 40583701
61-3	Discussion of formation of ingredients	Yes	01/28/81 04/08/88				244267 40583701
62-1	Preliminary analysis	Yes	01/28/81 04/08/88				244267 40583702
62-2	Certification of limits	Yes	01/28/81 04/08/88				00067960 40583702
62-3	Analytical methods for enforcement limits	Yes	01/28/81 04/08/88				244267 40583702
63-2	Color	Yes	01/28/81 04/08/88				244267 40583703
63-3	Physical state	Yes	01/28/81 04/08/88 09/20/91				244267 40583703 *42030201
63-4	Odor	Yes	01/28/81 04/08/88 09/20/91				244267 40583703 *42030201
63-5	Melting point	No					
63-6	Boiling point	Yes	01/28/81 04/08/88 09/20/91				N.A. (1) 244267 40583703 *42030201

(1) Not a solid at room temperature.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 2 OF 14	
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 2/27/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolap-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250			
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT				10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
9a. REGULATION PART 158/ GUIDELINE NUMBER	9b. NAME OF TEST	9c. SUBMITTED BY APPLICANT	9d. DATE SUBMITTED	9e. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9f. PERMISSION LETTER ENCLOSED	9g. PUBLIC LITERATURE	9h. N.A. OR WAIVER OR OTHER (EXPLAIN)
\$158.150	PRODUCT CHEMISTRY						
63-7	Density, bulk-density, or specific gravity	Yes	01/28/81 04/08/88 09/20/91				244267 40583703 *42030201
63-8	Solubility	Yes	01/28/81 04/08/88 12/11/90 09/20/91				244267 40583703 *41720301 *42030201
63-9	Vapor pressure	Yes	01/28/81 04/08/88 12/11/90				244267 40583703 *41720301
63-10	Disassociation constant	Yes	01/28/81 04/08/88 09/20/91				244267 40583703 *42030201
63-11	Octanol/water partition coefficient	Yes	04/08/88				40583703
63-12	pH	Yes	04/08/88				40583703
63-13	Stability	Yes	09/20/91				*42030201
63-14	Oxidizing/reducing reaction	No	01/28/81 04/08/88				244267
63-15	Flammability	No	12/11/90				40583703 *41720301
63-16	Explosibility	No	01/28/81				244267
63-17	Storage stability	No	04/08/88				40583703 *42030201
63-18	Viscosity	No	09/20/91				40583703
63-19	Miscibility	No	01/28/81				*42030201
63-20	Corrosion characteristics	No	04/08/88				244267
63-21	Dielectric breakdown voltage	No	04/08/88				40583703
							N.A. (2)
							N.A. (2)
							N.A. (2)
							N.A. (2)
							N.A. (2)
							N.A. (2)
							N.A. (2)

(2) Not required for technical chemical, see end-use formulations.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 3 OF 14			
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/85 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGR-64250					
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
REGULATION PART 158/ GUIDELINE NUMBER	NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)		
\$158.240	RESIDUE CHEMISTRY	Yes	01/28/81 04/08/88					244267 40583701	
171-2	Chemical identity	Yes							
171-3	Directions for Use	Yes	12/09/83					072213	
171-4	Nature of residue - Plants	Yes	06/05/81 06/05/81 06/05/81 06/05/81 06/05/81 06/05/81 06/05/81 11/19/84 12/17/85 12/17/85					74495 74496 74497 74498 74499 74500 74501 74502 143107 155644 155646	
171-4	Nature of residue - livestock	Yes	01/28/81 06/05/81 06/05/81 12/09/83 02/21/91 02/21/91					67905 74503 74504 072214 *41823301 *41823302	
171-4	Residue analytical method	Yes	12/09/83 12/09/83 12/09/83 12/09/83 06/16/88 06/16/88 02/21/91 02/21/91					40022401 40100101 40154501 40180701 40180702 40692204 40692206 *41823303 *41823304	

(3) See approved labeling for Propiconazole Technical EPA Reg. No. 100-618.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 4 OF 14	
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 2/29/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-(2-(2,4-dichlorophenyl)-4-pyridyl)-5,3-dioxobenz-2-yl-methyl-1-H-1,2,4-triazole; CGA-64250			
B. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT					
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)
\$158.240	RESIDUE CHEMISTRY						
171-4	Magnitude of residue in crop field trials	No					
171-4	Magnitude of residues - processed food/feed	No					N.A. (2)
171-4	Magnitude of residues in meat/milk/poultry/eggs	No					N.A. (2)
171-5	Reduction of residue	No					
171-6	Proposed tolerance	No					
171-7	Reasonable grounds in support of petition	No					

(2) Not required for technical chemical, see end-use formulations.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 5 OF 14	
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/85 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl)-1-H-1,2,4-triazole; CGA-64250			
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT				10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
9a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)
158-290	ENVIRONMENTAL FATE						
161-1	Hydrolysis	Yes	01/28/81				67901
161-2	Photodegradation in water	Yes	01/28/81 12/09/83 03/07/91				67911 133409 *41811901
161-3	Photodegradation in soil	Yes	01/28/81 03/07/91				67902 *41811902
161-4	Photodegradation in air	No					
162-1	Aerobic soil metabolism	Yes	01/28/81 09/30/82 09/30/82 09/30/82 12/09/83 12/09/83 12/17/85				67908 129910 129911 129912 129914 133375 133376 155644
162-2	Anaerobic metabolism	Yes	01/28/81 09/30/82				67908 129912
162-3	Anaerobic aquatic metabolism	Yes	03/13/84 02/20/89				252646 41013001
162-4	Aerobic aquatic metabolism	Yes	03/13/84 02/20/89				252646 41013002
163-1	Adsorption/desorption and leaching	Yes	01/28/81 01/28/81 12/11/90				67903 67906 *41727001
163-2	Volatility - lab	No					N.A. (4)
163-3	Volatility - field	No					N.A. (4)

(4) Conditional requirement - has not been requested based on use pattern and other pertinent factors.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 6 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/85 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-3,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.290	ENVIRONMENTAL FATE (Continued)							
164-1	Soil dissipation	No						
164-5	Soil, long-term dissipation	No						
165-1	Confined rotational crops studies	Yes	06/05/81 09/30/82 04/03/84 12/17/85 12/17/85 12/17/85				N.A. (2) N.A. (2)	74498 129915 138266 155643 155644 155645
165-2	Field rotational crops studies	No						
165-4	Fish accumulation	Yes	01/28/81 01/28/81 12/09/83 12/11/90				N.A. (2)	69570 245708 133394 41720303

(2) Not required for technical chemical, see end-use formulations.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 7 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: <u>8/27/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.340	TOXICOLOGY							
81-1	Acute oral toxicity - rat - mouse - Chinese hamster - rabbit	Yes Yes Yes Yes	01/28/81 01/28/81 01/28/81 01/28/81					58591 58592 58593 58594 58596
81-2	Acute dermal toxicity	Yes	01/28/81					*41594801
81-3	Acute inhalation toxicity - rat	Yes	08/14/90					58597
81-4	Primary eye irritation - rabbit	Yes	01/28/81					58598
81-5	Primary dermal irritation	Yes	01/28/81					58600
81-6	Dermal sensitization	Yes	01/28/81					
81-7	Acute delayed neurotoxicity - hen	No					N.A. (5)	
82-1	90-day feeding study - rodent	Yes	01/28/81					58606
			10/07/91					42050501
			10/07/91					42050502
82-2	21-day dermal	Yes	01/28/81					58607
82-3	90-day dermal	Yes	09/30/82					116591
82-4	90-day inhalation - rat	No					N.A. (6)	
82-5	90-day neurotoxicity	No					N.A. (6)	
83-1	Chronic feeding - rat - mouse - dog	Yes Yes Yes	07/15/83 09/13/85 07/15/83 09/13/85 09/13/85					129918 151502 129570 151503 151515

(5) Not an organophosphate or related compound, not related to compounds causing delayed neurotoxicity.  
 (6) Not purposefully applied to skin, no prolonged exposure to skin or repeated inhalation at toxic levels anticipated.  
 \* Submitted under FIFRA 88 reregistration, pending review.



DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 8 OF 14			
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: <u>8/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-pyridyl]-2,3-dioxolane-2-yl-methyl-1-H-1,2,4-triazole; CGA-64250					
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
9a. REGULATION PART 158/ GUIDELINE NUMBER	9b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)		
§158.340 83-2	TOXICOLOGY (Continued)								
	Oncogenicity study - rat	Yes	07/15/83 09/13/85 09/13/85						129918 151502 151517
83-3	Teratogenicity - rat	Yes	01/28/81 07/15/83 09/13/83 09/13/85 09/13/85 10/07/91						84153 129570 130844 151503 151516 42050503
	- mouse	Yes	01/28/81 11/05/87 11/05/87 01/28/81 10/20/86 11/05/87						58604 143454 163322 40425001 40425002 40425003 58605 164800 40425004
83-4	Reproduction, 2 generation	Yes	12/09/83 02/08/84 09/13/85						133350 138167 151514
84-2	Gene mutation	Yes	01/28/81 12/09/83 09/13/85 12/09/83 09/13/85 12/09/83 09/13/85 08/14/90 10/07/91						58601 133342 151504 133343 151505 133344 165468 41594802 42050504
	- rabbit	Yes							

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 9 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: <u>5/29/85</u> MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxol-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.340	TOXICOLOGY (Continued)	Yes	01/28/81					58602
84-2	Chromosomal aberration		01/28/81					58603
			12/09/83					133345
			09/13/85					151506
			12/09/83					133346
			09/13/85					151507
			12/09/83					163163
			09/13/85					151510
			08/14/90					*41594803
			10/07/91					42050505
84-4	Other genotoxic effects	Yes	12/09/83					133347
			09/13/85					151508
			12/09/83					133348
			09/13/85					151509
85-1	General metabolism	Yes	06/05/81					74505
			06/05/81					74506
			06/05/81					74507
			06/15/83					129906
			09/08/83					131098
			12/09/83					132946
			05/16/85					147861
			10/20/86					164794
			10/20/86					164795
			10/20/86					164796
			10/20/86					164797
			10/20/86					164798
85-2	Dermal penetration	Yes	10/20/86					164469
			10/20/86			Yes		164470
86-1	Domestic animal safety	No	10/20/86					164794
							N.A. (7)	

(7) Domestic animals are not routinely exposed to this product.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL. 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 10 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.390	REENTRY PROTECTION							
132-1	Foliar dissipation	No					N.A. (2)	
132-1	Soil dissipation	No					N.A. (2)	
133-1	Dermal exposure	No					N.A. (2)	
133-4	Inhalation exposure	No					N.A. (2)	
158.440	SPRAY DRIFT							
201-1	Droplet size spectrum	No					N.A. (2)	
202-1	Drift field evaluation	No					N.A. (2)	

(2) Not required for technical chemical, see end-use formulations.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 11 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/85 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-oxazolop-2-yl-methyl]-1-H-1,2,4-triazole; CGA-6425C				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
3158.490	WILDLIFE AND AQUATIC ORGANISMS							
71-1	Avian oral LD50 - duck	Yes	01/28/81					67926
71-2	Avian dietary LC50 - duck	Yes	01/28/81					79689
	- quail	Yes	01/28/81					67927
	- quail	Yes	12/09/83					133367
71-3	Wild mammal toxicity	No	12/09/83				N.A. (8)	79690
71-4	Avian reproduction	Yes	12/09/83					133366
71-5	Simulated and actual field testing	No	12/09/83					133368
72-1	Freshwater fish LC50	Yes	01/28/81					133369
		Yes	01/28/81					134502
		Yes	12/09/83					67922
		Yes	01/28/81					67923
		Yes	01/28/81					67924
		Yes	12/09/83					132922
		Yes	12/09/83					132926
		Yes	12/09/83					132929
		Yes	12/09/83					132930
72-2	Acute LC50 - freshwater invertebrates	Yes	01/28/81					67925
		Yes	12/09/83					132931
		Yes	12/09/83					132935
72-3	Acute LC50 - estuarine and marine - fish	Yes	12/09/83					132921
	- mollusk	No					N.A. (9)	
	- shrimp	No					N.A. (9)	

(2) Not required for technical chemical, see end-use formulations.  
 (8) Not required based on acute and subacute testing, use pattern, and pertinent environmental fate characteristics.  
 (9) Waiver accepted in EPA Response to Phase 2 Submission.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical	2. EPA REG. NO./FILE SYMBOL 100-618	3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4. PAGE 12 OF 14
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300	6. APPLICATION FOR REGISTRATION DATE: 5/2/85 MO DAY YR	7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250	
9. DATA REQUIREMENTS			
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9. SOURCE OF DATA SATISFYING REQUIREMENT	
9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED
9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
S158.490	WILDLIFE AND AQUATIC ORGANISMS (Continued)		
72-4	Fish early life stages and Aquatic invertebrate life cycle		41720302 163165
72-5	Fish - life cycle		40183310 40882001
72-6	Aquatic organism accumulation		
72-7			N.A. (10) N.A. (2)

(2) Not required for technical chemical, see end-use formulations.

(10) Active ingredient and/or principal degradation products not expected to occur or accumulate in aquatic environments.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 13 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/29/83 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl)-1-H-1,2,4-triazole; CSA-64350				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
158-540	PLANT PROTECTION							
121-1	Target area phytotoxicity	No						139534
122-1	Tier I Seed germination/seedling emergence	No						
	Tier I Vegetative vigor	No						
122-2	Tier I Aquatic plant growth	No						
123-1	Tier II Seed germination/seedling emergence	Yes	10/23/90					*41673202
	Tier II Vegetative vigor	Yes	10/23/90					*41673203
123-2	Tier II Aquatic plant growth	Yes	10/23/90					*41673201
			12/09/83					132937
			12/09/83					132938
			12/09/83					132939
			12/09/83					133362
			12/09/83					133363

(11) See higher Tier studies.  
\* Submitted under FIFRA 88 Accelerated Reregistration, pending review.

DATA REQUIREMENTS FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: Propiconazole Technical		2. EPA REG. NO./FILE SYMBOL 100-618		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 14 OF 14		
5. APPLICANT'S NAME AND ADDRESS: Ciba-Geigy Corporation Ciba Plant Protection P. O. Box 18300 Greensboro, NC 27419-8300		6. APPLICATION FOR REGISTRATION DATE: 8/27/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl]-1-H-1,2,4-triazole; CGA-64250				
B. DATA REQUIREMENTS								
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEST	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.590	NONTARGET INSECT							
141-1	Honeybee acute contact LD50	No					N.A. (12)	
141-2	Honeybee - toxicity of residue on foliage	No					N.A. (2)	
141-5	Field testing for pollinators	No					N.A. (2)	

(2) Not required for technical chemical, see end-use formulations.  
(12) Honeybee exposure does not occur.

**END OF DOCUMENT**



Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> <b>Amendment</b> <input type="checkbox"/> Other	OPP Identifier Number <span style="font-size: 1.5em;">236495</span>
	<b>Application for Pesticide - Section I</b>		

1. Company/Product Number 100-737	2. EPA Product Manager Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Orbit™ Gel Fungicide Tilt® Gel Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.


**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Requesting registration for use of Tilt Gel on carrots and onions and Orbit Gel on berries.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container _____    _____	If "Yes" Package wgt    No. per container 4 fl. oz    5
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 4 fl. oz. x 5	
5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Other Pressure Sensitive	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (include Area Code) (910) 632-2993
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Manager	
4. Typed Name Gregory R. Watson	5. Date August 29, 1995	

SUPPLEMENTAL LABELING

(Note: 4 fl. oz. packet size)

Page 1 of 2

ORBIT™ GEL FUNGICIDE

EPA REG. NO. 100-737

FOR USE ON BERRIES

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-

2-yl]methyl]-1H-1,2,4-triazole ..... 41.8%

Inert Ingredients: ..... 58.2%

Total ..... 100.0%

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Orbit Gel label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

Berries

Blueberries:

Orbit Gel can be applied by either aerial or ground equipment. For best results, sufficient water volume should be used to provide thorough and uniform plant coverage. When using aerial application a minimum of 5-10 gals./A is recommended. With ground equipment a minimum of 20-50 gals./A is recommended.

**Mummyberry disease (*Monilinia vaccinicorymbosi*)** - Apply 3 packets / 2 A (6 fl. oz. per A) of Orbit Gel at leaf bud break and repeat in 7-10 days. Make a third application at pink bud and repeat in 7-10 days in early bloom. Make a fifth application between full bloom and early petal fall.

Orbit Gel (EPA Reg. No. 100-737 / Supplemental Labeling  
Page 2 of 2

**Leaf and Stem Spot (*Septoria albopunctata*) and Rust (*Pucciniastrum vaccinii*)** - Apply 3 packets / 2 A (6 fl. oz. per A) of Orbit Gel beginning when conditions favor disease development. Repeat applications on a 4-week spray interval.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 fl. oz. Orbit Gel per acre per season. (2) Do not apply within 30 days of harvest.

**Blackberry\*, Elderberry, Huckleberry, Loganberry, Raspberry (Black and Red)**

\* - Includes bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, himalayaberry, hullberry, lavacaberry, lowberry, lucretiberry, mammoth blackberry, marion berry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry.

**Leaf and Cane Spot:** Apply 3 packets / 2 A (6 fl. oz. per A) of Orbit Gel as a delayed dormant spray after training in the spring. Repeat this application in the late spring, again at bud break, and again once flowering had begun. A total of 5 applications using the 3 packets / 2 A (6 fl. oz./A) rate may be applied.

**Powdery Mildew:** Apply 3 packets / 2 A (6 fl. oz. per A) of Orbit Gel at 5 to 10% bloom. Repeat this application at full bloom, and on a 14 day interval while conditions are favorable for disease development. A total of 5 applications using the 3 packets / 2 A (6 fl. oz. per A) rate may be applied.

**Currant, Gooseberry**

**Leaf Spot:** Apply 3 packets / 2 A (6 fl. oz. per A) of Orbit just after harvest. Repeat this application prior to bloom and after petal fall. A total of 5 applications using the 3 packets / 2 A (6 fl. oz. per A) rate may be applied.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 fl. oz. Orbit Gel per acre per season. (2) Do not apply within 30 days of harvest.

Orbit™ trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

©1995 Ciba-Geigy Corporation  
Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC

CGA

SUPPLEMENTAL LABELING

(Note: 4 fl. oz. packet size)

Page 1 of 3

Tilt® GEL FUNGICIDE

EPA REG. NO. 100-737

FOR USE ON CARROTS AND ONIONS

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-

2-yl]methyl]-1H-1,2,4-triazole ..... 41.8%

Inert Ingredients: ..... 58.2%

Total ..... 100.0%

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Tilt Gel label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

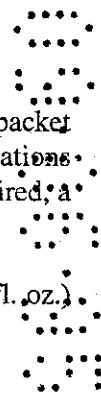
FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

Carrots

**Tilt Gel Alone for Foliar Disease Control**

**Leaf Blight (*Cercospora carotae*) and Powdery Mildew (*Erysiphe polygoni*)** - Apply 1 packet (4 fl. oz.) of Tilt Gel per A when conditions favor disease development. Continue applications on a 7-10 day interval, using the shorter interval when disease conditions are severe. If desired, a spreader-sticker may be used with Tilt Gel.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 fl. oz.) of Tilt Gel per acre per season. (2) Do not apply within 14 days of harvest.



Tilt Gel (EPA Reg. No. 100-737) / Supplemental Labeling  
Page 2 of 3

**Tilt Gel Plus Chlorothalonil for Foliar Disease Control**

**Leaf Blights (*Alternaria dauci*, *Cercospora carotae*) and Powdery Mildew (*Erysiphe polygoni*)** - Combinations of Tilt Gel with products containing chlorothalonil may be used for leaf blight and powdery mildew control. Apply 1 packet / 2 A (2 fl. oz./A) of Tilt Gel as a tank mixture with 0.75 lb. active ingredient of chlorothalonil per acre. Begin applications when conditions favor disease development. Continue applications on a 7-10 day spray interval.

**Important:** For additional information on the correct amount of formulated chlorothalonil product for this tank mixture use, consult the table in the peanut section of the Tilt Gel label. To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 fl. oz.) of Tilt Gel per acre per season. (2) Do not apply within 14 days of harvest.

---

**Dry Bulb Onions\*, Green Onions \*\*, and Onions Grown for Seed**

---

\* - Includes garlic, onions (dry bulb), and shallots (dry bulb)

\*\* - Includes green onions, leeks, spring onions or scallions, Japanese bunching onions, green shallots, or green eschalots

**Tilt Gel Alone for Foliar Disease Control**

**Purple Blotch Control (*Alternaria porri*) and Botrytis Leaf Blight Suppression (*Botrytis squamosa*)** - Apply 1 - 2 packets (4-8 fl. oz.) of Tilt Gel per A in sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7-10 day interval. Use the higher rate and shorter interval when disease conditions are severe. To achieve optimum disease control use a wetting agent or spreader-sticker.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 fl. oz) of Tilt Gel per acre per season. (2) Tilt Gel may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.

**Tilt Gel Plus Tank Mixtures for Foliar Disease Control**

**Purple Blotch (*Alternaria porri*) and Botrytis Leaf Blight (*Botrytis squamosa*) Control** - Apply 1 packet / 1 - 2 A (2-4 fl. oz. per A) of Tilt Gel in combination with another fungicide registered for control of Botrytis Leaf Blight or Purple Blotch of dry bulb onions, green onions, or onions grown for seed. Foliar applications should be made using sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7 day interval. Use the higher rate when disease conditions are severe.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 fl. oz) of Tilt Gel per acre per season. (2) Tilt Gel may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.

Tilt Gel (EPA Reg. No. 100-737) / Supplemental Labeling  
Page 3 of 3

Tilt® trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

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Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC

CGA

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: TILT GEL FUNGICIDE, OREIT GEL FUNGICIDE		2. EPA REG. NO./FINE SYMBOL 100-737		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		PAGE 1 OF 1		
5. APPLICANT'S NAME AND ADDRESS: Ciba Crop Protection Ciba-Geigy Corporation P.O. Box 18300 Greensboro, N.C. 27419		6. APPLICATION FOR REGISTRATION DATE: 08/29/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): PROPICONAZOLE (EPA REG. NO. 100-618)				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT				10.		
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEXT	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FLRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.150	PRODUCT CHEMISTRY							
61-1	Identity of ingredients	YES	11/21/91					42117001
61-2	Statement of composition	YES	11/21/91					42117001
61-3	Discussion of formation of ingredients	YES	11/21/91					42117001
62-2	Certification of limits	YES	11/21/91					42117001
62-3	Analytical method	YES	11/21/91					42117001
63								
63-2	Color	YES	11/21/91					42117001
63-3	Physical state	YES	11/21/91					42117001
63-4	Odor	YES	11/21/91					42117001
63-7	Density, bulk-density, or specific gravity	YES	11/21/91					42117001
63-12	pH	YES	11/21/91					42117001
63-14	Oxidizing/reducing reaction	YES	11/21/91					42117001
63-15	Flammability	YES	11/21/91					42117001
63-16	Explosibility	YES	11/21/91					42117001
63-17	Storage stability	YES	11/21/91					42117001
63-20	Corrosion characteristics	YES	11/21/91					42117001

TGELMTR.XLS

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: TILT GEL FUNGICIDE, ORBIT GEL FUNGICIDE		2. EPA REG. NO./FILE SYMBOL 100-737		3. FORMULATOR'S EXEMPTION SELECTED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 1 OF 1							
5. APPLICANT'S NAME AND ADDRESS: Ciba Crop Protection Ciba-Geigy Corporation P.O. Box 18300 Greensboro, N.C. 27419		6. APPLICATION FOR REGISTRATION DATE: 08/29/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): PROPICONAZOLE (EPA REG. NO. 100-618)									
8B. REGULATION PART 158/ GUIDELINE NUMBER		8A. SUBMITTED BY APPLICANT		9C. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)		9D. PERMISSION LETTER ENCLOSED		9E. PUBLIC LITERATURE		9F. N.A. OR WAIVER OR OTHER (EXPLAIN)		10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER	
158.340		Toxicology											
81-1		Summary of Acute Toxicology Studies		YES		11/21/91						421170-02	
81-2		Acute Oral LD-50 - rat		YES		11/21/91						421170-03	
81-3		Acute dermal LD-50		YES		11/21/91						421170-04	
81-4		Acute inhalation LC-50 - rat		YES		11/21/91						421170-05	
81-5		Primary eye irritation - rabbit		YES		11/21/91						421170-06	
81-6		Primary dermal irritation		YES		11/21/91						421170-07	
		Dermal sensitization		YES		11/21/91						421170-08	
		Also citing attached Tilt (EPA Reg. No. 100-617) and Propiconazole Technical (EPA Reg. No. 100-618) Data Matrices											



**END OF DOCUMENT**

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

 United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number <span style="font-size: 24pt;">236496</span>

**Application for Pesticide - Section I**

1. Company/Product Number 100-TIN	2. EPA Product Manager Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tilt® 45W Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.
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**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Requesting registration for use of Tilt 45W on carrots and onions.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt    No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		4 oz.    5	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 4 oz. x 5	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (include Area Code) (910) 632-2993
2. Signature 		6. Date Application Received (Stamped)   
3. Title Senior Regulatory Manager		
4. Typed Name Gregory R. Watson	5. Date August 29, 1995	

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.

SUPPLEMENTAL LABELING

(Note: 4 oz. packet size)

Page 1 of 3

TILT® 45W FUNGICIDE  
EPA FILE SYMBOL NO. 100-TIN

FOR USE ON CARROTS AND ONIONS

Active Ingredient: Propiconazole:	
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole .....	45%
<u>Inert Ingredients:</u>	<u>55%</u>
Total	100%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

All applicable directions, restrictions, and precautions on the EPA-registered Tilt 45W label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

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**DIRECTIONS FOR USE**

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It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

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**Carrots**

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**Tilt 45W Alone for Foliar Disease Control**

**Leaf Blight (*Cercospora carotae*) and Powdery Mildew (*Erysiphe polygoni*)** - Apply 1 packet (4 oz.) of Tilt 45W per A when conditions favor disease development. Continue applications on a 7-10 day interval, using the shorter interval when disease conditions are severe. If desired, a spreader-sticker may be used with Tilt 45W.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 oz.) of Tilt 45W per acre per season. (2) Do not apply within 14 days of harvest.

Tilt 45W (EPA File Symbol No. 100-TIN) / Supplemental Labeling  
Page 2 of 3

**Tilt 45W Plus Chlorothalonil for Foliar Disease Control**

**Leaf Blights (*Alternaria dauci*, *Cercospora carotae*) and Powdery Mildew (*Erysiphe polygoni*)** - Combinations of Tilt 45W with products containing chlorothalonil may be used for leaf blight and powdery mildew control. Apply 1 packet / 2A(2 oz.) of Tilt 45W as a tank mixture with 0.75 lb. active ingredient of chlorothalonil per acre. Begin applications when conditions favor disease development. Continue applications on a 7-10 day spray interval.

Important: For additional information on the correct amount of formulated chlorothalonil product for this tank mixture use, consult the table in the peanut section of the Tilt 45W label. To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 oz.) of Tilt 45W per A per season. (2) Do not apply within 14 days of harvest.

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**Dry Bulb Onions\*, Green Onions \*\*, and Onions Grown for Seed**

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\* - Includes garlic, onions (dry bulb), and shallots (dry bulb)

\*\* - Includes green onions, leeks, spring onions or scallions, Japanese bunching onions, green shallots, or green eschalots

**Tilt 45W Alone for Foliar Disease Control**

**Purple Blotch Control (*Alternaria porri*) and Botrytis Leaf Blight Suppression (*Botrytis squamosa*)** - Apply 1-2 packets (4-8 oz.) of Tilt 45W per A in sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7-10 day interval. Use the higher rate and shorter interval when disease conditions are severe. To achieve optimum disease control use a wetting agent or spreader-sticker.

Important: To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 oz.) of Tilt 45W per acre per season. (2) Tilt 45W may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.

**Tilt 45W Plus Tank Mixtures for Foliar Disease Control**

**Purple Blotch (*Alternaria porri*) and Botrytis Leaf Blight (*Botrytis squamosa*) Control** - Apply 1 packet / 1-2A (2-4 oz./A) of Tilt 45W in combination with another fungicide registered for control of Botrytis Leaf Blight or Purple Blotch of dry bulb onions, green onions, or onions grown for seed. Foliar applications should be made using sufficient water to provide through coverage of the plant canopy. Begin applications when conditions favor disease development and continue on a 7 day interval. Use the higher rate when disease conditions are severe.

Important: To avoid possible illegal residues: (1) Do not apply more than 4 packets (16 oz.) of Tilt 45W per acre per season. (2) Tilt 45W may be applied up to the day of harvest on green onions. (3) Do not apply within 14 days of harvest on dry bulb onions.



**END OF DOCUMENT**

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number  
**236498**

**Application for Pesticide - Section I**

1. Company/Product Number 100-TIR	2. EPA Product Manager Welch	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Orbit™ 45W Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-Geigy Corporation Ciba Crop Protection Post Office Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Requesting registration for use of Orbit 45W on berries.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	Other (Specify) _____	
		4 oz.	5		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 4 oz. x 5		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory R. Watson	Title Senior Regulatory Manager	Telephone No. (include Area Code) (910) 632-2993
2. Signature 		6. Date Application Received  (Stamped)
3. Title Senior Regulatory Manager		
4. Typed Name Gregory R. Watson	5. Date August 29, 1995	

SUPPLEMENTAL LABELING

(Note: 4 oz. packet size)

Page 1 of 2

ORBIT™ 45W FUNGICIDE  
EPA FILE SYMBOL NO. 100-TIR  
FOR USE ON BERRIES

Active Ingredient: Propiconazole:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole . . . . . 45%

Inert Ingredients: . . . . . 55%

Total . . . . . 100%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

All applicable directions, restrictions, and precautions on the EPA-registered Orbit 45W label are to be followed including statements pertaining to the Worker Protection Standard.

This label must be in the possession of the user at the time of pesticide application.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

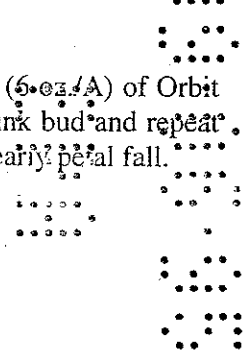
FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

Berries

Blueberries:

Orbit 45W can be applied by either aerial or ground equipment. For best results, sufficient water volume should be used to provide thorough and uniform plant coverage. When using aerial application a minimum of 5-10 gals./A is recommended. With ground equipment a minimum of 20-50 gals./A is recommended.

**Mummyberry disease (*Monilinia vaccinicorymbosi*)** - Apply 3 packets / 2 A (6 oz./A) of Orbit 45W at leaf bud break and repeat in 7-10 days. Make a third application at pink bud and repeat in 7-10 days in early bloom. Make a fifth application between full bloom and early petal fall.





Orbit 45W (EPA FILE SYMBOL No. 100-TTR) / Supplemental Labeling  
Page 2 of 2

**Leaf and Stem Spot (*Septoria albopunctata*) and Rust (*Pucciniastrum vaccinii*)** - Apply 3 packets / 2 A (6 oz./A) of Orbit 45W beginning when conditions favor disease development. Repeat applications on a 4-week spray interval.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 oz. Orbit 45W per acre per season. (2) Do not apply within 30 days of harvest.

**Blackberry\*, Elderberry, Huckleberry, Loganberry, Raspberry (Black and Red)**

\* - Includes bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, himalayaberry, hullberry, lavacaberry, lowberry, lucretiberry, mammoth blackberry, marion berry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry.

**Leaf and Cane Spot:** Apply 3 packets / 2 A (6 oz./A) of Orbit 45W as a delayed dormant spray after training in the spring. Repeat this application in the late spring, again at bud break, and again once flowering had begun. A total of 5 applications using the 3 packets / 2 A (6 oz./A) rate may be applied.

**Powdery Mildew:** Apply 3 packets / 2 A (6 oz./A) of Orbit 45W at 5 to 10% bloom. Repeat this application at full bloom, and on a 14 day interval while conditions are favorable for disease development. A total of 5 applications using the 3 packets / 2 A (6 oz./A) rate may be applied.

**Currant, Gooseberry**

**Leaf Spot:** Apply 3 packets / 2 A (6 oz./A) of Orbit 45W per A just after harvest. Repeat this application prior to bloom and after petal fall. A total of 5 applications using the 3 packets / 2 A (6 oz./A) rate may be applied.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 30 oz. Orbit 45W per acre per season. (2) Do not apply within 30 days of harvest.

Orbit™ trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,079,062

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Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC

CGA

45WPMTR.XLS

DATA REQUIREMENT FOR THE SELECTIVE METHOD OF SUPPORT

1. PRODUCT NAME: TILT 45W FUNGICIDE, ORBIT 45W FUNGICIDE		2. EPA REG. NO./FILE SYMBOL 100-TIN, 100-TIR		3. FORMULATOR'S EXEMPTION SELECTED. YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		4. PAGE 1 OF 3		
5. APPLICANT'S NAME AND ADDRESS: Ciba Crop Protection Ciba-Geigy Corporation P.O. Box 18300 Greensboro, N.C. 27419		6. APPLICATION FOR REGISTRATION DATE: 08/23/95 MO DAY YR		7. NAME OF ACTIVE INGREDIENT(S): PROFICOMAZOLE (EPA REG. NO. 100-618)				
8. DATA REQUIREMENTS		9. SOURCE OF DATA SATISFYING REQUIREMENT						
8a. REGULATION PART 158/ GUIDELINE NUMBER	8b. NAME OF TEXT	9a. SUBMITTED BY APPLICANT	9b. DATE SUBMITTED	9c. SUBMITTED BY ANOTHER PERSON/FIRM (NAME)	9d. PERMISSION LETTER ENCLOSED	9e. PUBLIC LITERATURE	9f. N.A. OR WAIVER OR OTHER (EXPLAIN)	10. MRID NUMBER EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
S158.150	<b>PRODUCT CHEMISTRY</b>							
61-1	Identity of ingredients	YES	05/15/95					43655601
61-2	Statement of composition	YES	05/15/95					43655601
61-3	Discussion of formation of ingredients	YES	05/15/95					43655601
62-2	Certification of limits	YES	05/15/95					43655601
62-3	Analytical method	YES	05/15/95					43655601
63								
63-2	Color	YES	05/15/95					43655601
63-3	Physical state	YES	05/15/95					43655601
63-4	Odor	YES	05/15/95					43655601
63-7	Density, bulk-density, or specific gravity	YES	05/15/95					43655601
63-12	pH	YES	05/15/95					43655601
63-14	Oxidizing/reducing reaction	YES	05/15/95					43655601
63-16	Explosibility	YES	05/15/95					43655601
63-17	Storage stability	YES	05/15/95					43655601
63-20	Corrosion characteristics	YES	05/15/95					43655601





**END OF DOCUMENT**



13544

R062567

<b>Chemical:</b>	<b>Propiconazole</b>
<b>PC Code:</b>	<b>122101</b>
<b>HED File Code</b>	<b>11500 Petition Files Chemistry</b>
<b>Memo Date:</b>	<b>06/18/2003 12:00:00 AM</b>
<b>File ID:</b>	<b>DPD219664</b>
<b>Accession Number:</b>	<b>412-04-0137</b>

**HED Records Reference Center**  
**06/28/2004**