



SR-EBDC

D-15560

30PP REF #11
6-3-94

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Special Review for Maneb (EBDC) Use on Turnips, Collards, and Mustard Greens. DRES Dietary Exposure and Risk Estimates.

FROM: Richard Griffin *Richard Griffin 4/3/94*
Registration Section
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THROUGH: Albin Kocialski, Section Head
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Health Effects Division

TO: Amy Farrell
Special Review Branch
Special Review and Reregistration Division (7508W)

To evaluate the cancellation of Maneb use on turnips, collards, and mustard greens, this memo provides the following exposure and risk estimates for the Overall U.S., U.S. Southern region, and NH Blacks:

- EBDC/ETU exposure/risk without cancelled uses (apricots, celery, carrots, collards, mustard greens, nectarines, peaches, rhubarb, spinach, succulent beans, and turnips).
- EBDC/ETU exposure/risk for turnip tops with assumptions of 100% crop treated, 90% CT (PD 4 estimate), and 23% CT (use restricted to Georgia and Tennessee).
- EBDC/ETU exposure/risk for collards with assumptions of 100% CT, 90% CT, and 26% (GA/TN).
- EBDC/ETU exposure/risk for mustard greens with assumptions of 100% CT, 90% CT, and 13% CT (GA/TN).
- EBDC/ETU exposure/risk for above "leafy greens" combined, with above assumptions of crop treated.



- Chlorothalonil exposure/risk for published uses only, based on anticipated residue estimates.
- Chlorothalonil exposure/risk for turnip tops, collards, and mustard greens using the above assumptions of percent crop treated.
- Hexachlorobenzene exposure/risk (chlorothalonil exposure x 0.0005) for chlorothalonil published uses.
- HCB exposure/risk for turnip tops, collards, and mustard greens.
- PD 4 exposure/risk estimates for apples, potatoes, and tomatoes (to demonstrate consumption relative to these population groups).

EBDC/ETU Exposure/Risk Estimates:

ETU RfD = 0.00008 mg/kg/day: $Q_1^* = 1.1 \times 10^{-1}$ (mg/kg/day)⁻¹

Retained uses:

Exposure/risk estimates below are based on the EBDC retained uses summarized in the 3/2/92 "Notice of Intent to Cancel and Conclusion of Special Review" (A summary of uses/anticipated residue estimates/percent crop treated estimates is attached).

○ **Overall U.S. Population:**

0.0000147 mg/kg/day (18% RfD) 1.6 E-06 Carcinogenic Risk

○ **U.S. Southern Region:**

0.0000136 mg/kg/day (17% RfD) 1.5 E-06.

○ **NH Blacks:**

0.0000132 mg/kg/day (17% RfD) 1.5 E-06

Leafy greens:

Exposure/risk estimates below are based on revised anticipated residue estimates (S.V. Hummel memo, 1/25/94) and three (100, 90, GA/TN) assumptions of percent crop treated.

○ **Overall U.S. Population: Turnip tops:**

100% crop treated:	0.0000026 mg/kg/day	(3% RfD)	2.8 E-07
90%	: 0.0000023	(3% RfD)	2.5 E-07
23%	: 0.0000006	(<1% RfD)	6.4 E-08

○ Overall U.S. Population: Collards:

100% crop treated:	0.0000038 mg/kg/day	(5% RfD)	4.2 E-07
90%	: 0.0000034	(4% RfD)	3.8 E-07
26%	: 0.0000009	(1% RfD)	1.1 E-07

○ Overall U.S. Population: Mustard greens:

100% crop treated:	0.0000029 mg/kg/day	(4% RfD)	3.2 E-07
90%	: 0.0000026	(3% RfD)	2.9 E-07
13%	: 0.0000004	(<1% RfD)	4.1 E-08

○ Overall U.S. Population: Greens combined:

100% crop treated:	0.0000093 mg/kg/day	(12% RfD)	1.0 E-06
90%	: 0.0000084	(10% RfD)	9.2 E-07
23/26/13%	: 0.0000019	(3% RfD)	2.2 E-07

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○ U.S. Southern region: Turnip tops:

100% crop treated:	0.0000062 mg/kg/day	(8% RfD)	6.8 E-07
90%	: 0.0000055	(7% RfD)	6.1 E-07
23%	: 0.0000014	(2% RfD)	1.6 E-07

○ U.S. Southern region: Collards:

100% crop treated:	0.0000087 mg/kg/day	(11% RfD)	9.5 E-07
90%	: 0.0000078	(10% RfD)	8.6 E-07
26%	: 0.0000023	(3% RfD)	2.5 E-07

○ U.S. Southern region: Mustard Greens:

100% crop treated:	0.0000066 mg/kg/day	(8% RfD)	7.3 E-07
90%	: 0.0000059	(8% RfD)	6.5 E-07
13%	: 0.0000009	(1% RfD)	9.4 E-08

○ U.S. Southern region: Greens combined:

100% crop treated:	0.0000214 mg/kg/day	(27% RfD)	2.4 E-06
90%	: 0.0000193	(24% RfD)	2.1 E-06
23/26/13%	: 0.0000045	(6% RfD)	4.9 E-07

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○ NH Blacks: Turnip tops:

100% crop treated:	0.0000118 mg/kg/day	(15% RfD)	1.3 E-06
90%	: 0.0000106	(13% RfD)	1.2 E-06
23%	: 0.0000027	(3% RfD)	2.9 E-07

○ **NH Blacks: Collards:**

100% crop treated:	0.0000239 mg/kg/day	(30% RfD)	2.6 E-06
90%	: 0.0000215	(27% RfD)	2.4 E-06
26%	: 0.0000063	(8% RfD)	6.8 E-07

○ **NH Blacks: Mustard greens:**

100% crop treated:	0.0000166 mg/kg/day	(21% RfD)	1.8 E-06
90%	: 0.0000149	(19% RfD)	1.6 E-06
13%	: 0.0000022	(3% RfD)	2.4 E-07

○ **NH Blacks: Greens combined:**

100% crop treated:	0.0000524 mg/kg/day	(66% RfD)	5.8 E-06
90%	: 0.0000471	(59% RfD)	5.2 E-06
23/26/13%	: 0.0000111	(14% RfD)	1.2 E-06

Chlorothalonil Exposure/Risk Estimates:

RfD = 0.015 mg/kg/day: $Q_1^* = 1.1 \times 10^{-2}$ (mg/kg/day)⁻¹:

Published uses:

Exposure/risk estimates below are based on anticipated residue estimates for the published (40 CFR 180.275) chlorothalonil uses (Summary Attached).

Overall U.S. Population:

0.0000740 mg/kg/day (<1% RfD) 8.1 E-07 Carcinogenic Risk

U.S. Southern Region:

0.0000600 mg/kg/day (<1% RfD) 6.6 E-07

NH Blacks:

0.0000430 mg/kg/day (<1% RfD) 4.7 E-07

Leafy greens:

Exposure/risk estimates below are based on anticipated residue estimates (4.25 ppm) and three (100, 90, GA/TN) assumptions of percent crop treated.

○ Overall U.S. Population: Turnip tops:

100% crop treated:	0.0000625 mg/kg/day	(<1% RfD)	6.9 E-07
90%	: 0.0000563	(<1% RfD)	6.2 E-07
23%	: 0.0000144	(<1% RfD)	1.6 E-07

○ Overall U.S. Population: Collards:

100% crop treated:	0.0000803 mg/kg/day	(<1% RfD)	8.8 E-07
90%	: 0.0000723	(<1% RfD)	7.9 E-07
26%	: 0.0000209	(<1% RfD)	2.3 E-07

○ Overall U.S. Population: Mustard Greens:

100% crop treated:	0.0000617 mg/kg/day	(<1% RfD)	6.8 E-07
90%	: 0.0000556	(<1% RfD)	6.1 E-07
13%	: 0.0000080	(<1% RfD)	8.8 E-08

○ Overall U.S. Population: Greens combined:

100% crop treated:	0.0002046 mg/kg/day	(1% RfD)	2.3 E-06
90%	: 0.0001841	(1% RfD)	2.0 E-06
23/26/13%	: 0.0000433	(<1% RfD)	4.8 E-07

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○ U.S. Southern region: Turnip tops:

100% crop treated:	0.0001489 mg/kg/day	(1% RfD)	1.6 E-06
90%	: 0.0001341	(1% RfD)	1.5 E-06
23%	: 0.0000343	(<1% RfD)	3.8 E-07

○ U.S. Southern region: Collards:

100% crop treated:	0.0001820 mg/kg/day	(1% RfD)	2.0 E-06
90%	: 0.0001638	(1% RfD)	1.8 E-06
26%	: 0.0000473	(<1% RfD)	5.2 E-07

○ U.S. Southern region: Mustard Greens:

100% crop treated:	0.0001392 mg/kg/day	(1% RfD)	1.5 E-06
90%	: 0.0001253	(1% RfD)	1.4 E-06
13%	: 0.0000181	(<1% RfD)	1.9 E-07

○ U.S. Southern region: Greens combined:

100% crop treated:	0.0004703 mg/kg/day	(3% RfD)	5.2 E-06
90%	: 0.0004232	(3% RfD)	4.7 E-06
23/26/13%	: 0.0000997	(<1% RfD)	1.1 E-06

○ **NH Blacks: Turnip tops:**

100% crop treated:	0.0002939	mg/kg/day	(2% RfD)	3.2	E-06
90%	: 0.0002645		(2% RfD)	2.9	E-06
23%	: 0.0000676		(<1% RfD)	7.4	E-07

○ **NH Blacks: Collards:**

100% crop treated:	0.0005037	mg/kg/day	(3% RfD)	5.5	E-06
90%	: 0.0004533		(3% RfD)	4.9	E-06
26%	: 0.0001309		(1% RfD)	1.4	E-06

○ **NH Blacks: Mustard Greens:**

100% crop treated:	0.0003504	mg/kg/day	(2% RfD)	3.9	E-06
90%	: 0.0003154		(2% RfD)	3.5	E-06
13%	: 0.0000456		(<1% RfD)	5.0	E-07

○ **NH Blacks: Greens combined:**

100% crop treated:	0.0011479	mg/kg/day	(8% RfD)	1.3	E-05
90%	: 0.0010332		(7% RfD)	1.1	E-05
23/26/13%	: 0.0002441		(2% RfD)	2.7	E-06

HCB Exposure/Risk Estimates:

HCB RfD = 0.0008 mg/kg/day: $Q_1^* = 1.7$ (mg/kg/day)⁻¹:

Published uses:

HCB exposure estimates are derived by multiplying chlorothalonil exposure estimates by 0.05%.

Overall U.S. Population:

0.000000037 mg/kg/day (<1% RfD) 6.2 E-08

U.S. Southern Region:

0.000000030 mg/kg/day (<1% RfD) 5.1 E-08

NH Blacks:

0.000000021 mg/kg/day (<1% RfD) 3.5 E-08

Leafy greens:

○ **Overall U.S. population: Turnip tops:**

100% crop treated:	0.000000031 (<1% RfD)	5.2 E-08
90%	: 0.000000028 (<1%)	4.7 E-08
23%	: 0.000000007 (<1%)	1.1 E-08

○ **Overall U.S. population: Collards:**

100% crop treated:	0.000000040 (<1% RfD)	6.8 E-08
90%	: 0.000000036 (<1%)	6.1 E-08
26%	: 0.000000010 (<1%)	1.7 E-08

○ **Overall U.S. population: Mustard greens:**

100% crop treated:	0.000000030 (<1% RfD)	5.1 E-08
90%	: 0.000000027 (<1%)	4.5 E-08
13%	: 0.000000004 (<1%)	6.8 E-09

○ **Overall U.S. population: Greens combined:**

100% crop treated:	0.000000102 (<1% RfD)	1.7 E-07
90%	: 0.000000092 (<1%)	1.6 E-07
23/26/13%	: 0.000000021 (<1%)	3.5 E-08

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○ **U.S. Southern region: Turnip tops:**

100% crop treated:	0.000000074 (<1% RfD)	1.3 E-07
90%	: 0.000000067 (<1%)	1.1 E-07
23%	: 0.000000017 (<1%)	2.8 E-08

○ **U.S. Southern region: Collards:**

100% crop treated:	0.000000091 (<1% RfD)	1.5 E-07
90%	: 0.000000081 (<1%)	1.4 E-07
26%	: 0.000000023 (<1%)	3.9 E-08

○ **U.S. Southern region: Mustard greens:**

100% crop treated:	0.000000069 (<1% RfD)	1.2 E-07
90%	: 0.000000062 (<1%)	1.1 E-07
13%	: 0.000000009 (<1%)	1.5 E-08

○ **U.S. Southern region: Greens combined:**

100% crop treated:	0.000000235 (<1% RfD)	3.9 E-07
90%	: 0.000000211 (<1%)	3.6 E-07
23/26/13%	: 0.000000049 (<1%)	8.3 E-08

○ **NH Blacks: Turnip tops:**

100% crop treated:	0.000000146	(<1% RfD)	2.5 E-07
90%	: 0.000000132	(<1%)	2.2 E-07
23%	: 0.000000033	(<1%)	5.6 E-08

○ **NH Blacks: Collards:**

100% crop treated:	0.000000251	(<1% RfD)	4.3 E-07
90%	: 0.000000226	(<1%)	3.8 E-07
26%	: 0.000000065	(<1%)	1.1 E-07

○ **NH Blacks: Mustard Greens:**

100% crop treated:	0.000000175	(<1% RfD)	2.9 E-07
90%	: 0.000000157	(<1%)	2.7 E-07
13%	: 0.000000022	(<1%)	3.7 E-08

○ **NH Blacks: Greens combined:**

100% crop treated:	0.000000573	(<1% RfD)	9.7 E-07
90%	: 0.000000516	(<1%)	8.8 E-07
23/26/13%	: 0.000000122	(<1%)	2.1 E-07

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Relative ETU Exposure/Risk for Apples/Potatoes/Tomatoes:

○ **Apples:**

Overall U.S.:	0.0000030	mg/kg/day (4% RfD)	3.3 E-07
Southern U.S.:	0.0000023	(3%)	2.5 E-07
NH Blacks:	0.0000020	(3%)	2.2 E-07

○ **Potatoes:**

Overall U.S.:	0.0000019	mg/kg/day (2% RfD)	2.1 E-07
Southern U.S.:	0.0000019	(2%)	2.1 E-07
NH Blacks:	0.0000018	(2%)	1.9 E-07

○ **Tomatoes:**

Overall U.S.:	0.0000025	mg/kg/day (3% RfD)	2.7 E-07
Southern U.S.:	0.0000023	(3%)	2.5 E-07
NH Blacks:	0.0000018	(2%)	1.9 E-07

cc: R. Griffin
CBRS (HED)
DES/SAB (HED)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiourea (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: 82 (CAG/HED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP Rfd= 0.000080 EPA Rfd= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01010AA	CRANBERRIES		P 0.000000	0.016000	F Field Trial	10.00	0.001600
01010AA	CRANBERRIES		P 0.000000	0.018900	F	10.00	0.001890
01010AA	CRANBERRIES		P 0.000000	0.018900	F	10.00	0.001890
01010JA	CRANBERRY- JUICE		P 0.000000	0.002500C MT		10.00	0.000250
01010JA	CRANBERRY- JUICE		P 0.000000	0.002500C MT		10.00	0.000250
01014AA	GRAPES- FRESH		P 0.000000	0.005000	F	21.00	0.001050
01014AA	GRAPES- FRESH		P 0.000000	0.005700	F	57.00	0.003249
01014AA	GRAPES- FRESH		P 0.000000	0.005700	F	57.00	0.003249
01014AA	GRAPES- FRESH		P 0.000000	0.009000C F		20.00	0.000180
01014DA	GRAPES- RAISINS		P 0.000000	0.009000C F		20.00	0.000180
01014DA	GRAPES- RAISINS		P 0.000000	0.009000C F		20.00	0.000180
01014DA	GRAPES- RAISINS		P 0.000000	0.009000C F		20.00	0.000180
01014JA	GRAPES- JUICE		P 0.000000	0.002500C M		53.00	0.001325
01014JA	GRAPES- JUICE		P 0.000000	0.002500C M		53.00	0.001325
01014JA	GRAPES- JUICE		P 0.000000	0.002500C M		53.00	0.001325
03001AA	ALMONDS		P 0.000000	0.010000	F	10.00	0.001000
03001AA	ALMONDS		P 0.000000	0.010000	F	10.00	0.001000
03001AA	ALMONDS		P 0.000000	0.010000	F	10.00	0.001000
03008AA	PECANS		P 0.000000	0.002000	F	1.00	0.000020
03008AA	PECANS		P 0.000000	0.002000	F	1.00	0.000020
03008AA	PECANS		P 0.000000	0.002000	F	1.00	0.000020
03008AA	PECANS		P 0.000000	0.002000	F	1.00	0.000020
03008AA	PECANS		P 0.000000	0.002000	F	1.00	0.000020
04001AA	APPLES- FRESH		IAI NEW P 0.000000	0.006900	F	50.00	0.003450
04001AA	APPLES- FRESH		IAI NEW P 0.000000	0.007100	F	50.00	0.003550
04001AA	APPLES- FRESH		IAI NEW P 0.000000	0.007100	F	50.00	0.003550
04001AA	APPLES- FRESH		IAI NEW P 0.000000	0.007100	F	50.00	0.003550
04001AA	APPLES- FRESH		IAI NEW P 0.000000	0.007100	F	50.00	0.003550
04001DA	APPLES- DRIED		IAI NEW P 0.000000	0.007100C F		50.00	0.003550
04001DA	APPLES- DRIED		IAI NEW P 0.000000	0.007100C F		50.00	0.003550
04001DA	APPLES- DRIED		IAI NEW P 0.000000	0.007100C F		50.00	0.003550
04001JA	APPLES- JUICE		IAI NEW P 0.000000	0.007100C F		50.00	0.003550
04001JA	APPLES- JUICE		IAI NEW P 0.000000	0.007100C F		50.00	0.003550
04002AA	CRABAPPLES		IAI NEW P 0.000000	0.007100	FT	100.00	0.007100
04003AA	PEARS- FRESH		IAI NEW P 0.000000	0.006900	FT	15.00	0.001035
04003AA	PEARS- FRESH		IAI NEW P 0.000000	0.007100	FT	15.00	0.001065
04003AA	PEARS- FRESH		IAI NEW P 0.000000	0.007100	FT	15.00	0.001065
04003AA	PEARS- FRESH		IAI NEW P 0.000000	0.007100	FT	15.00	0.001065
04003DA	PEARS- DRIED		IAI NEW P 0.000000	0.006900	FT	15.00	0.001035
04003DA	PEARS- DRIED		IAI NEW P 0.000000	0.007100	FT	15.00	0.001065
04004AA	QUINCES		IAI NEW P 0.000000	0.007100	FT	100.00	0.007100
06002AA	BANANAS- UNSPEC		P 0.000000	0.002500	M	80.00	0.002000

w/c CANCELLED USES

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiourea (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: B2 (CAG/HED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP RfD= 0.000080 EPA RfD= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, Lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 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)
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS		P 0.000000	0.002500	M	80.00	0.002000
06002AB	BANANAS-FRESH	21 COOKED-NFS		P 0.000000	0.002500	M	80.00	0.002000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED		P 0.000000	0.002500	M	80.00	0.002000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS		P 0.000000	0.002500	M	80.00	0.002000
06002DA	BANANAS-DRIED	21 COOKED-NFS		P 0.000000	0.002500	M	80.00	0.002000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS		P 0.000000	0.025700	F	100.00	0.025700
06010AB	PAPAYAS-PULP	51 COOKED-CANNED		P 0.000000	0.025900	F	100.00	0.025900
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS		P 0.000000	0.025700	F	100.00	0.025700
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS		P 0.000000	0.025700	F	100.00	0.025700
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS		P 0.000000	0.001100	MT	100.00	0.001100
10002AB	CANTALOUPE-PULP	21 COOKED-NFS		P 0.000000	0.001200	MT	100.00	0.001200
10003AA	CASABAS	10 RAW-FRESH OR NFS		P 0.000000	0.001100	MT	100.00	0.001100
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS		P 0.000000	0.001100	MT	100.00	0.001100
10008AA	WATERMELON	10 RAW-FRESH OR NFS		P 0.000000	0.001100	MT	100.00	0.001100
10008AA	WATERMELON	21 COOKED-NFS		P 0.000000	0.001200	MT	100.00	0.001200
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS		P 0.000000	0.003600	M	100.00	0.003600
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED		P 0.000000	0.003600	M	100.00	0.003600
10010AA	CUCUMBERS	21 COOKED-NFS		P 0.000000	0.004100	M	100.00	0.004100
10011AA	PUMPKIN	21 COOKED-NFS		P 0.000000	0.001000	MT	100.00	0.001000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED		P 0.000000	0.001000	MT	100.00	0.001000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED		P 0.000000	0.001000	MT	100.00	0.001000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS		P 0.000000	0.002700	MT	100.00	0.002700
10013AA	SQUASH-SUMMER	21 COOKED-NFS		P 0.000000	0.003100	MT	100.00	0.003100
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS		P 0.000000	0.002700	MT	100.00	0.002700
10014AA	SQUASH-WINTER	21 COOKED-NFS		P 0.000000	0.003100	MT	100.00	0.003100
10017AA	BITTER MELON	31 COOKED-FRESH OR CANNED		P 0.000000	0.003100	MT	100.00	0.003100
11001AA	EGGPLANT	10 RAW-FRESH OR NFS		P 0.000000	0.002600	MT	100.00	0.002600
11001AA	EGGPLANT	21 COOKED-NFS		P 0.000000	0.003200	MT	100.00	0.003200
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED		P 0.000000	0.003200	MT	100.00	0.003200
11003AA	PEPPERS-SWEET	10 RAW-FRESH OR NFS		P 0.000000	0.002300	MT	100.00	0.002300
11003AA	PEPPERS-SWEET	21 COOKED-NFS		P 0.000000	0.002900	MT	100.00	0.002900
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS		P 0.000000	0.002300	MT	100.00	0.002300
11003AD	PEPPERS-OTHER	21 COOKED-NFS		P 0.000000	0.002300	MT	100.00	0.002300
11004AA	PIMIENTOS	51 COOKED-CANNED		P 0.000000	0.002900	MT	100.00	0.002900
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS		P 0.000000	0.002300	MT	100.00	0.002300
11004AA	PIMIENTOS	21 COOKED-NFS		P 0.000000	0.002900	MT	100.00	0.002900
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		P 0.000000	0.002900	MT	100.00	0.002900
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		P 0.000000	0.001700	M	100.00	0.001700
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		P 0.000000	0.003100	M	100.00	0.003100

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiourea (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: B2 (CAS/MED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP Rfd= 0.000080 EPA Rfd= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
11005AA	TOMATOES-WHOLE	31	P 0.000000	0.003100	M	100.00	0.003100
11005JA	TOMATOES-JUICE	10	P 0.000000	0.001500C	M	100.00	0.001500
11005JA	TOMATOES-JUICE	21	P 0.000000	0.001500C	M	100.00	0.001500
11005RA	TOMATOES-PUREE	10	P 0.000000	0.001700C	M	100.00	0.001700
11005RA	TOMATOES-PUREE	21	P 0.000000	0.003100C	M	100.00	0.003100
11005RA	TOMATOES-PUREE	31	P 0.000000	0.003100C	M	100.00	0.003100
11005RA	TOMATOES-PUREE	32	P 0.000000	0.003100C	M	100.00	0.003100
11005RA	TOMATOES-PUREE	51	P 0.000000	0.003100C	M	100.00	0.003100
11005TA	TOMATOES-PASTE	21	P 0.000000	0.006100C	M	100.00	0.006100
11005TA	TOMATOES-PASTE	22	P 0.000000	0.006100C	M	100.00	0.006100
11005TA	TOMATOES-PASTE	31	P 0.000000	0.001600C	M	100.00	0.001600
11005TA	TOMATOES-CATSJP	21	P 0.000000	0.004300	M	100.00	0.004300
13005AA	BROCCOLI	21	P 0.000000	0.004300	M	100.00	0.004300
13005AA	BROCCOLI	31	P 0.000000	0.004300	M	100.00	0.004300
13005AA	BROCCOLI	63	P 0.000000	0.004300	MT	100.00	0.004300
13006AA	BRUSSEL SPROUTS	23	P 0.000000	0.004300	MT	100.00	0.004300
13007AA	CABBAGE	10	P 0.000000	0.000300	MT	100.00	0.000300
13007AA	CABBAGE	11	P 0.000000	0.005200	MT	100.00	0.005200
13007AA	CABBAGE	21	P 0.000000	0.000300	MT	100.00	0.000300
13008AA	CAULIFLOWER	10	P 0.000000	0.000300	MT	100.00	0.000300
13008AA	CAULIFLOWER	21	P 0.000000	0.000300	MT	100.00	0.000300
13010AA	CABBAGE-CHINESE	10	P 0.000000	0.000300	MT	100.00	0.000300
13010AA	CABBAGE-CHINESE	21	P 0.000000	0.006300	MT	100.00	0.006300
13011AA	KALE	63	P 0.000000	0.660000	F	90.00	0.594000
13012AA	KOHLRABI	21	P 0.000000	0.006300	MT	100.00	0.006300
13013AA	LETTUCE-LEAFY	10	P 0.000000	0.073800	F	60.00	0.044280
13015AA	ENDIVE	10	P 0.000000	0.073800	FT	50.00	0.036900
13015AA	ENDIVE	21	P 0.000000	0.073800	FT	50.00	0.036900
13016AA	FENNEL	00	P 0.000000	0.018100	FT	100.00	0.018100
13020AA	LETTUCE-UNSPEC	10	P 0.000000	0.001200	FT	60.00	0.000720
13045AA	LETTUCE-HEAD	10	P 0.000000	0.000400	M	100.00	0.000400
13045AA	LETTUCE-HEAD	21	P 0.000000	0.000900	M	100.00	0.000900
13045AA	LETTUCE-HEAD	31	P 0.000000	0.001300	M	100.00	0.001300
14011AA	ONIONS-DRY-BULB	10	P 0.000000	0.001700	M	100.00	0.001700
14011AA	ONIONS-DRY-BULB	21	P 0.000000	0.001700	M	100.00	0.001700
14011AA	ONIONS-DRY-BULB	22	P 0.000000	0.001700	M	100.00	0.001700
14011AA	ONIONS-DRY-BULB	31	P 0.000000	0.001700	M	100.00	0.001700
14011DA	ONIONS-DRIED	12	P 0.000000	0.001300	M	100.00	0.001300
14013AA	POTATO(WH)-WHOLE	10	P 0.000000	0.001900	M	100.00	0.001900
14013AA	POTATO(WH)-WHOLE	21	P 0.000000	0.001900	M	100.00	0.001900

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiourea (ETU) Casmell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm OMCO: B2 (CAG/HED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP Rfd= 0.000080 EPA Rfd= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 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)
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED		P 0.000000	0.001900	M	100.00	0.001900
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED		P 0.000000	0.001900	M	100.00	0.001900
14013AC	POTATO(WH)-PULP	21 COOKED-NFS (BAKED)		P 0.000000	0.001400	M	100.00	0.001400
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED		P 0.000000	0.001400	M	100.00	0.001400
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED		P 0.000000	0.001800	M	100.00	0.001800
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED		P 0.000000	0.001400	M	100.00	0.001400
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS		P 0.000000	0.001800	M	100.00	0.001800
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED		P 0.000000	0.001800	M	100.00	0.001800
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED		P 0.000000	0.002000	M	100.00	0.002000
15001AB	BEANS-DRY-KIDNEY 21	COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15001AB	BEANS-DRY-KIDNEY 31	COOKED-FRESH OR CANNED		P 0.000000	0.000700	M	100.00	0.000700
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED		P 0.000000	0.000700	M	100.00	0.000700
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED		P 0.000000	0.000700	M	100.00	0.000700
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15004AA	CORN, POP	21 COOKED-NFS		P 0.000000	0.000030	MT	100.00	0.000030
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS		P 0.000000	0.000900	M	100.00	0.000900
15005AA	CORN, SWEET	21 COOKED-NFS		P 0.000000	0.000900	M	100.00	0.000900
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED		P 0.000000	0.000900	M	100.00	0.000900
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS		P 0.000000	0.000200	MT	100.00	0.000200
15006AA	PEANUTS-WHOLE	21 COOKED-NFS		P 0.000000	0.000200	MT	100.00	0.000200
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED		P 0.000000	0.000200	MT	100.00	0.000200
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15032AA	BEANS-DRY	21 COOKED-NFS		P 0.000000	0.000700	M	100.00	0.000700
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED		P 0.000000	0.000700	M	100.00	0.000700
16002AA	ASPARAGUS	21 COOKED-NFS		P 0.000000	0.006000	F	35.00	0.002100
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED		P 0.000000	0.006000	F	35.00	0.002100
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS		P 0.000000	0.000300	MT	100.00	0.000300
16004AA	ONIONS-GREEN	21 COOKED-NFS		P 0.000000	0.000400	MT	100.00	0.000400
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED		P 0.000000	0.000400	MT	100.00	0.000400
24001AA	BARLEY	21 COOKED-NFS		P 0.000000	0.000030	MT	100.00	0.000030
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS		P 0.000000	0.000030	MT	100.00	0.000030
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS		P 0.000000	0.000030	MT	100.00	0.000030
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED		P 0.000000	0.000030	MT	100.00	0.000030
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED		P 0.000000	0.000030	MT	100.00	0.000030
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS		P 0.000000	0.000030C	MT	100.00	0.000030

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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 RUN (ppm)
24002SA	CORN SUGAR	21 COOKED-NFS	P	0.000000	0.000030C	MT	100.00	0.000030
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	P	0.000000	0.000030C	MT	100.00	0.000030
24003AA	OATS	21 COOKED-NFS	P	0.000000	0.000040	MT	100.00	0.000040
24003AA	OATS	22 COOKED-FRESH-BAKED	P	0.000000	0.000040	MT	100.00	0.000040
24003AA	OATS	23 COOKED-FRESH-BOILED	P	0.000000	0.000040	MT	100.00	0.000040
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	P	0.000000	0.000040	MT	100.00	0.000040
24005VA	RYE-FLOUR	21 COOKED-NFS	P	0.000000	0.000040	MT	100.00	0.000040
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	P	0.000000	0.000040	MT	100.00	0.000040
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007AA	WHEAT-ROUGH	21 COOKED-NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	P	0.000000	0.000010	MT	100.00	0.000010
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	P	0.000000	0.000010	MT	100.00	0.000010
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-BRAN	21 COOKED-NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-FLOUR	21 COOKED-NFS	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-FLOUR	23 COOKED-FRESH-BOILED	P	0.000000	0.000010	MT	100.00	0.000010
24007HA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	P	0.000000	0.000010	MT	100.00	0.000010
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	P	0.000000	0.018700	F	5.00	0.000935
25002SA	BEET SUGAR	21 COOKED-NFS	P	0.000000	0.018700	F	5.00	0.000935
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	P	0.000000	0.018700	F	5.00	0.000935
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	P	0.000000	0.000030	MT	100.00	0.000030
270030A	COTTONSEED-OIL	18 PROCESSED OIL	P	0.000000	0.000100	MT	100.00	0.000100
27003VA	COTTONSEED-MEAL	18 PROCESSED OIL	P	0.000000	0.000100	MT	100.00	0.000100
270070A	PEANUTS-OIL	18 PROCESSED OIL	P	0.000000	0.000200	MT	100.00	0.000200
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	P	0.000000	0.009300	M	29.00	0.002697
43058AA	WINE AND SHERRY	21 COOKED-NFS	P	0.000000	0.009300	M	29.00	0.002697
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	P	0.000000	0.000002	M	100.00	0.000002
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	P	0.000000	0.000002	M	100.00	0.000002
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	P	0.000000	0.000002	M	100.00	0.000002
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	P	0.000000	0.000002C	M	100.00	0.000002
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	P	0.000000	0.000002C	M	100.00	0.000002
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	P	0.000000	0.000002C	M	100.00	0.000002
50000SA	MILK SUG (LACT)	21 COOKED-NFS	P	0.000000	0.000002	M	100.00	0.000002
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	P	0.000000	0.000002	M	100.00	0.000002
530018A	BEEF-HEAT BYP	21 COOKED-NFS	P	0.000000	0.000002	M	100.00	0.000002

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Ethylene thiourea (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg LEL= 0.2500 mg/kg 5.00 ppm ONCO: B2 (CAG/HED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP RfD= 0.000080 EPA RfD= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001BA	BEEF-MEAT BYP	26	0.000000	0.000002	M	100.00	0.000002
53001BB	BEEF-OTH ORGAN	21	0.000000	0.000002	M	100.00	0.000002
53001BB	BEEF-OTH ORGAN	51	0.000000	0.000002	M	100.00	0.000002
53001DA	BEEF-DRIED	21	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	10	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	21	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	22	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	23	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	24	0.000000	0.000002	M	100.00	0.000002
53001FA	BEEF-FAT	25	0.000000	0.000002	M	100.00	0.000002
53001KA	BEEF-KIDNEY	21	0.000000	0.000002	M	100.00	0.000002
53001LA	BEEF-LIVER	25	0.000000	0.000002	M	100.00	0.000002
53001LA	BEEF-LIVER	31	0.000000	0.000002	M	100.00	0.000002
53001MA	BEEF-LEAN	10	0.000000	0.000002	M	100.00	0.000002
53001MA	BEEF-LEAN	21	0.000000	0.000002	M	100.00	0.000002
53001MA	BEEF-LEAN	22	0.000000	0.000002	M	100.00	0.000002
53001MA	BEEF-LEAN	23	0.000000	0.000002	M	100.00	0.000002
53001MA	BEEF-LEAN	24	0.000000	0.000002	M	100.00	0.000002
53002FA	GOAT-FAT	23	0.000000	0.000002	MT	100.00	0.000002
53002FA	GOAT-FAT	25	0.000000	0.000002	MT	100.00	0.000002
53002MA	GOAT-LEAN	23	0.000000	0.000002	MT	100.00	0.000002
53002MA	GOAT-LEAN	25	0.000000	0.000002	MT	100.00	0.000002
53005BA	SHEEP-MEAT BYP	21	0.000000	0.000002	MT	100.00	0.000002
53005BB	SHEEP-OTH ORGAN	21	0.000000	0.000002	MT	100.00	0.000002
53005FA	SHEEP-FAT	21	0.000000	0.000002	MT	100.00	0.000002
53005KA	SHEEP-KIDNEY	21	0.000000	0.000002	MT	100.00	0.000002
53005MA	SHEEP-LEAN	31	0.000000	0.000002	MT	100.00	0.000002
53006BA	PORK-MEAT BYP	21	0.000000	0.000002	MT	100.00	0.000002
53006BB	PORK-OTH ORGAN	21	0.000000	0.000002	MT	100.00	0.000002
53006BB	PORK-OTH ORGAN	26	0.000000	0.000002	MT	100.00	0.000002
53006FA	PORK-FAT	10	0.000000	0.000002	MT	100.00	0.000002
53006FA	PORK-FAT	21	0.000000	0.000002	MT	100.00	0.000002
53006FA	PORK-FAT	23	0.000000	0.000002	MT	100.00	0.000002
53006FA	PORK-FAT	25	0.000000	0.000002	MT	100.00	0.000002
53006KA	PORK-KIDNEY	26	0.000000	0.000002	MT	100.00	0.000002
53006LA	PORK-LIVER	21	0.000000	0.000002	MT	100.00	0.000002
53006LA	PORK-LIVER	25	0.000000	0.000002	MT	100.00	0.000002
53006MA	PORK-LEAN	21	0.000000	0.000002	MT	100.00	0.000002

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiourea (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: B2 (CAG/NEE)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP Rfd= 0.000080 EPA Rfd= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, Lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 On IRIS.

FOOD CODE	FOOD	TOLERANCE (ppm)	PET.#	ANTICIPATED RESIDUE (ppm)	AR	STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006AA	PORK-LEAN	P 0.000000		0.000002	MT		100.00	0.000002
53006AA	PORK-LEAN	P 0.000000		0.000002	MT		100.00	0.000002

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
EBDC PARENT Caswell #999ZZZ CAS NO. A.I. CODE: CFR No. 180.	NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:		UF -->0 OPP RfD= 1.000000 EPA RfD= 1.000000	VALUE OF 1.0 IS NOT ACTUAL RFD	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
01010AA	CRANBERRIES		P 0.000000	0.150000	F Field Trial	10.00	0.015000
01010AA	CRANBERRIES		P 0.000000	0.075000	F	10.00	0.007500
01010AA	CRANBERRIES		P 0.000000	0.075000	F	10.00	0.007500
01010JA	CRANBERRY - JUICE		P 0.000000	0.047000C MT		10.00	0.004700
01010JA	CRANBERRY - JUICE		P 0.000000	0.047000C MT		10.00	0.004700
01014AA	GRAPES-FRESH		P 0.000000	0.037200 F		21.00	0.007812
01014AA	GRAPES-FRESH		P 0.000000	0.018600 F		57.00	0.010602
01014AA	GRAPES-FRESH		P 0.000000	0.018600 F		57.00	0.010602
01014DA	GRAPES-RAISINS		P 0.000000	0.068200C F		20.00	0.013640
01014DA	GRAPES-RAISINS		P 0.000000	0.068200C F		20.00	0.013640
01014DA	GRAPES-RAISINS		P 0.000000	0.068200C F		20.00	0.013640
01014JA	GRAPES-JUICE		P 0.000000	0.047000C M		53.00	0.024910
01014JA	GRAPES-JUICE		P 0.000000	0.047000C M		53.00	0.024910
01014JA	GRAPES-JUICE		P 0.000000	0.047000C M		53.00	0.024910
03001AA	ALMONDS		P 0.000000	0.440000 F		10.00	0.044000
03001AA	ALMONDS		P 0.000000	0.440000 F		10.00	0.044000
03001AA	ALMONDS		P 0.000000	0.440000 F		10.00	0.044000
03008AA	PECANS		P 0.000000	0.020000 F		1.00	0.000200
03008AA	PECANS		P 0.000000	0.020000 F		1.00	0.000200
03008AA	PECANS		P 0.000000	0.020000 F		1.00	0.000200
03008AA	PECANS		P 0.000000	0.020000 F		1.00	0.000200
03008AA	PECANS		P 0.000000	0.020000 F		1.00	0.000200
04001AA	APPLES-FRESH		P 0.000000	0.044200 F		50.00	0.022100
04001AA	APPLES-FRESH		P 0.000000	0.005600 F		50.00	0.002800
04001AA	APPLES-FRESH		P 0.000000	0.005600 F		50.00	0.002800
04001AA	APPLES-FRESH		P 0.000000	0.005600 F		50.00	0.002800
04001DA	APPLES-DRIED		P 0.000000	0.044200 F		50.00	0.022100
04001DA	APPLES-DRIED		P 0.000000	0.005600 F		50.00	0.002800
04001DA	APPLES-DRIED		P 0.000000	0.005600 F		50.00	0.002800
04001DA	APPLES-DRIED		P 0.000000	0.005600 F		50.00	0.002800
04001DA	APPLES-DRIED		P 0.000000	0.005600 F		50.00	0.002800
04001JA	APPLES-JUICE		P 0.000000	0.011300C F		50.00	0.005650
04001JA	APPLES-JUICE		P 0.000000	0.011300C F		50.00	0.005650
04002AA	CRABAPPLES		P 0.000000	0.005600 FT	F Translation	100.00	0.005600
04003AA	PEARS-FRESH		P 0.000000	0.044200 FT		15.00	0.006630
04003AA	PEARS-FRESH		P 0.000000	0.005600 FT		15.00	0.000840
04003AA	PEARS-FRESH		P 0.000000	0.005600 FT		15.00	0.000840
04003AA	PEARS-FRESH		P 0.000000	0.005600 FT		15.00	0.000840
04003AA	PEARS-FRESH		P 0.000000	0.005600 FT		15.00	0.000840
04003DA	PEARS-DRIED		P 0.000000	0.044200 FT		15.00	0.006630
04003DA	PEARS-DRIED		P 0.000000	0.005600 FT		15.00	0.000840
04004AA	QUINCES		P 0.000000	0.005600 FT		100.00	0.005600
06002AA	BANANAS-UNSPEC		P 0.000000	0.010300 F		80.00	0.008240

no DELETED USES

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999ZZZ

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
EBDC PARENT Caswell #999ZZZ CAS No. A.I. CODE: CFR No. 180.	NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:		UF -->0 OPP RfD= 1.000000 EPA RfD= 1.000000	VALUE OF 1.0 IS NOT ACTUAL RFD	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
06002AB	BANANAS-FRESH		P 0.000000	0.010300	F	80.00	0.008240
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	P 0.000000	0.010300	F	80.00	0.008240
06002AB	BANANAS-FRESH	21 COOKED-NFS	P 0.000000	0.010300	F	80.00	0.008240
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	P 0.000000	0.010300	F	80.00	0.008240
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	P 0.000000	0.010300	F	80.00	0.008240
06002DA	BANANAS-DRIED	21 COOKED-NFS	P 0.000000	0.010300	F	80.00	0.008240
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	P 0.000000	0.055200	F	100.00	0.055200
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	P 0.000000	0.006600	F	100.00	0.006600
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	P 0.000000	0.055200	F	100.00	0.055200
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	P 0.000000	0.055200	F	100.00	0.055200
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	P 0.000000	0.002800	MT	100.00	0.002800
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	P 0.000000	0.000300	MT	100.00	0.000300
10003AA	CASABAS	10 RAW-FRESH OR NFS	P 0.000000	0.002800	MT	100.00	0.002800
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	P 0.000000	0.002800	MT	100.00	0.002800
10008AA	WATERMELON	10 RAW-FRESH OR NFS	P 0.000000	0.002800	MT	100.00	0.002800
10008AA	WATERMELON	21 COOKED-NFS	P 0.000000	0.000300	MT	100.00	0.000300
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	P 0.000000	0.009700	M	100.00	0.009700
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	P 0.000000	0.009700	M	100.00	0.009700
10010AA	CUCUMBERS	21 COOKED-NFS	P 0.000000	0.001000	M	100.00	0.001000
10011AA	PUMPKIN	21 COOKED-NFS	P 0.000000	0.000300	MT	100.00	0.000300
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	P 0.000000	0.000300	MT	100.00	0.000300
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	P 0.000000	0.000300	MT	100.00	0.000300
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	P 0.000000	0.006000	MT	100.00	0.006000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	P 0.000000	0.000800	MT	100.00	0.000800
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	P 0.000000	0.006000	MT	100.00	0.006000
10014AA	SQUASH-WINTER	21 COOKED-NFS	P 0.000000	0.000800	MT	100.00	0.000800
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	P 0.000000	0.000800	MT	100.00	0.000800
10017AA	BITTER MELON	21 COOKED-NFS	P 0.000000	0.012700	MT	100.00	0.012700
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	P 0.000000	0.001400	MT	100.00	0.001400
11001AA	EGGPLANT	21 COOKED-NFS	P 0.000000	0.001400	MT	100.00	0.001400
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	P 0.000000	0.001400	MT	100.00	0.001400
11003AA	PEPPERS,SWEET	10 RAW-FRESH OR NFS	P 0.000000	0.009700	MT	100.00	0.009700
11003AA	PEPPERS,SWEET	21 COOKED-NFS	P 0.000000	0.001200	MT	100.00	0.001200
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	P 0.000000	0.009700	MT	100.00	0.009700
11003AD	PEPPERS-OTHER	21 COOKED-NFS	P 0.000000	0.001200	MT	100.00	0.001200
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	P 0.000000	0.001200	MT	100.00	0.001200
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	P 0.000000	0.009700	MT	100.00	0.009700
11004AA	PIMIENTOS	21 COOKED-NFS	P 0.000000	0.001200	MT	100.00	0.001200
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR CANNED	P 0.000000	0.001200	MT	100.00	0.001200
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	P 0.000000	0.001200	MT	100.00	0.001200
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	P 0.000000	0.014000	M	100.00	0.014000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	P 0.000000	0.003200	M	100.00	0.003200

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999ZZZ

EBCD PARENT	CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				UF -->0	VALUE OF 1.0 IS NOT ACTUAL RFD		
Caswell #999ZZZ		NOEL= 0.0000 mg/kg		OPP Rfd= 1.000000			
CAS No.		0.00 ppm		EPA Rfd= 1.000000			
A.I. CODE:		LEL= 0.0000 mg/kg					
CFR No. 180.		0.00 ppm					
		ONCO:					

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
11005AA	TOMATOES-WHOLE	31	P 0.000000	0.003200	M	100.00	0.003200
11005JA	TOMATOES-JUICE	10	P 0.000000	0.002600	M	100.00	0.002600
11005JA	TOMATOES-JUICE	21	P 0.000000	0.002600	M	100.00	0.002600
11005RA	TOMATOES-PUREE	10	P 0.000000	0.014000	M	100.00	0.014000
11005RA	TOMATOES-PUREE	21	P 0.000000	0.003200	M	100.00	0.003200
11005RA	TOMATOES-PUREE	31	P 0.000000	0.003200	M	100.00	0.003200
11005RA	TOMATOES-PUREE	32	P 0.000000	0.003200	M	100.00	0.003200
11005RA	TOMATOES-PUREE	51	P 0.000000	0.003200	M	100.00	0.003200
11005TA	TOMATOES-PASTE	21	P 0.000000	0.007300	M	100.00	0.007300
11005TA	TOMATOES-PASTE	22	P 0.000000	0.007300	M	100.00	0.007300
11005TA	TOMATOES-PASTE	31	P 0.000000	0.007300	M	100.00	0.007300
11005TA	TOMATOES-CATSUP	21	P 0.000000	0.002400	M	100.00	0.002400
13005AA	BROCCOLI	21	P 0.000000	0.000900	M	100.00	0.000900
13005AA	BROCCOLI	31	P 0.000000	0.000900	M	100.00	0.000900
13005AA	BROCCOLI	63	P 0.000000	0.000900	M	100.00	0.000900
13006AA	BRUSSEL SPROUTS	21	P 0.000000	0.000900	MT	100.00	0.000900
13006AA	BRUSSEL SPROUTS	23	P 0.000000	0.000900	MT	100.00	0.000900
13007AA	CABBAGE	10	P 0.000000	0.054000	MT	100.00	0.054000
13007AA	CABBAGE	11	P 0.000000	0.054000	MT	100.00	0.054000
13007AA	CABBAGE	21	P 0.000000	0.016000	MT	100.00	0.016000
13008AA	CAULIFLOWER	10	P 0.000000	0.054000	MT	100.00	0.054000
13008AA	CAULIFLOWER	21	P 0.000000	0.009000	MT	100.00	0.009000
13010AA	CABBAGE-CHINESE	10	P 0.000000	0.054000	MT	100.00	0.054000
13010AA	CABBAGE-CHINESE	21	P 0.000000	0.001600	MT	100.00	0.001600
13011AA	KALE	63	P 0.000000	0.220000	F	90.00	0.198000
13012AA	KOHLRABI	21	P 0.000000	0.000900	MT	100.00	0.000900
13013AA	LETTUCE-LEAFY	10	P 0.000000	5.400000	F	60.00	3.240000
13015AA	ENDIVE	10	P 0.000000	5.400000	FT	50.00	2.700000
13015AA	ENDIVE	21	P 0.000000	5.400000	FT	50.00	2.700000
13016AA	FENNEL	00	P 0.000000	0.005600	FT	100.00	0.005600
13020AA	LETTUCE-UNSPEC	10	P 0.000000	0.091700	FT	60.00	0.055020
13045AA	LETTUCE-HEAD	10	P 0.000000	0.005600	M	100.00	0.005600
13045AA	LETTUCE-HEAD	21	P 0.000000	0.002000	M	100.00	0.002000
14011AA	ONIONS-DRY-BULB	10	P 0.000000	0.007600	M	100.00	0.007600
14011AA	ONIONS-DRY-BULB	21	P 0.000000	0.007600	M	100.00	0.007600
14011AA	ONIONS-DRY-BULB	22	P 0.000000	0.007600	M	100.00	0.007600
14011AA	ONIONS-DRY-BULB	31	P 0.000000	0.007600	M	100.00	0.007600
14011DA	ONIONS-DRIED	12	P 0.000000	0.007600	M	100.00	0.007600
14013AA	POTATO(WH)-WHOLE	10	P 0.000000	0.000100	M	100.00	0.000100
14013AA	POTATO(WH)-WHOLE	21	P 0.000000	0.000100	M	100.00	0.000100

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
EBDC PARENT Caswell #999ZZZ CAS No. A.I. CODE: CFR No. 180.	NOEL= 0.0000 mg/kg LEL= 0.0000 mg/kg ONCO:		UF -->0 OPP Rfd= 1.000000 EPA Rfd= 1.000000	VALUE OF 1.0 IS NOT ACTUAL RFD	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14013AA	POTATO(WH)-WHOLE 22		P 0.000000	0.000100	M	100.00	0.000100
14013AB	POTATO(WH)-UNSP 22		P 0.000000	0.000100	M	100.00	0.000100
14013AC	POTATO(WH)-PULP 21		P 0.000000	0.000100	M	100.00	0.000100
14013AC	POTATO(WH)-PULP 22		P 0.000000	0.000100	M	100.00	0.000100
14013AC	POTATO(WH)-PULP 23		P 0.000000	0.000100	M	100.00	0.000100
14013AC	POTATO(WH)-PULP 25		P 0.000000	0.000100	M	100.00	0.000100
14013DA	POTATO(WH)-DRY 10		P 0.000000	0.000100C	M	100.00	0.000100
14013DA	POTATO(WH)-DRY 31		P 0.000000	0.000100C	M	100.00	0.000100
14013HA	POTATO(WH)-PEEL 22		P 0.000000	0.002500	M	100.00	0.002500
15001AB	BEANS-DRY-KIDNEY 31		P 0.000000	0.002500	M	100.00	0.002500
15001AC	BEANS-DRY-LINA 21		P 0.000000	0.002500	M	100.00	0.002500
15001AD	BEANS-DRY-NAVY 21		P 0.000000	0.002500	M	100.00	0.002500
15001AE	BEANS-DRY-NAVY 31		P 0.000000	0.002500	M	100.00	0.002500
15001AE	BEANS-DRY-OTHER 25		P 0.000000	0.002500	M	100.00	0.002500
15001AE	BEANS-DRY-OTHER 31		P 0.000000	0.002500	M	100.00	0.002500
15001AF	BEANS-DRY-PINTO 21		P 0.000000	0.002500	M	100.00	0.002500
15004AA	CORN,POP 21		P 0.000000	0.000100	MT	100.00	0.000100
15005AA	CORN,SWEET 10		P 0.000000	0.003000	M	100.00	0.003000
15005AA	CORN,SWEET 21		P 0.000000	0.003000	M	100.00	0.003000
15005AA	CORN,SWEET 31		P 0.000000	0.003000	M	100.00	0.003000
15006AA	PEANUTS-WHOLE 10		P 0.000000	0.000600	MT	100.00	0.000600
15006AA	PEANUTS-WHOLE 22		P 0.000000	0.000600	MT	100.00	0.000600
15023AA	BEANS-DRY-PIGEON 21		P 0.000000	0.002500	M	100.00	0.002500
15031AA	BLKEYE PEAS-DRY 21		P 0.000000	0.002500	M	100.00	0.002500
15032AA	BEANS-DRY 31		P 0.000000	0.002500	M	100.00	0.002500
15032AA	BEANS-DRY 21		P 0.000000	0.002500	M	100.00	0.002500
16002AA	ASPARAGUS 23		P 0.000000	0.000400	F	35.00	0.000140
16002AA	ASPARAGUS 25		P 0.000000	0.000400	F	35.00	0.000140
16004AA	ONIONS-GREEN 10		P 0.000000	0.001800	MT	100.00	0.001800
16004AA	ONIONS-GREEN 21		P 0.000000	0.001800	MT	100.00	0.001800
16004AA	ONIONS-GREEN 25		P 0.000000	0.001800	MT	100.00	0.001800
24001AA	BARLEY 21		P 0.000000	0.000100	MT	100.00	0.000100
24002EA	CORN,GRAIN-ENDO 10		P 0.000000	0.000100	MT	100.00	0.000100
24002EA	CORN,GRAIN-ENDO 21		P 0.000000	0.000100	MT	100.00	0.000100
24002EA	CORN,GRAIN-ENDO 22		P 0.000000	0.000100	MT	100.00	0.000100
24002EA	CORN,GRAIN-ENDO 23		P 0.000000	0.000100	MT	100.00	0.000100
24002SA	CORN SUGAR 10		P 0.000000	0.000100C	MT	100.00	0.000100

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
EBDC PARENT	Caswell #999ZZZ	NOEL=	0.0000 mg/kg			UF -->0	OPP RfD= 1.000000	VALUE OF 1.0 IS NOT			
CAS No.		LEL=	0.00 ppm				EPA RfD= 1.000000	ACTUAL RFD			
A.I. CODE:		ONCO:	0.0000 mg/kg								
CFR No.	180.		0.00 ppm								

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
24002SA	CORN SUGAR	21 COOKED-NFS	P	0.000000	0.000100C MT		100.00	0.000100
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	P	0.000000	0.000100C MT		100.00	0.000100
24003AA	OATS	21 COOKED-NFS	P	0.000000	0.000100 MT		100.00	0.000100
24003AA	OATS	22 COOKED-FRESH-BAKED	P	0.000000	0.000100 MT		100.00	0.000100
24003AA	OATS	23 COOKED-FRESH-BOILED	P	0.000000	0.000100 MT		100.00	0.000100
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	P	0.000000	0.000100 MT		100.00	0.000100
24005VA	RYE-FLOUR	21 COOKED-NFS	P	0.000000	0.000100 MT		100.00	0.000100
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	P	0.000000	0.000100 MT		100.00	0.000100
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007AA	WHEAT-ROUGH	21 COOKED-NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	P	0.000000	0.000030 MT		100.00	0.000030
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	P	0.000000	0.000030 MT		100.00	0.000030
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	P	0.000000	0.000030 MT		100.00	0.000030
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007HA	WHEAT-BRAN	21 COOKED-NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	P	0.000000	0.000030 MT		100.00	0.000030
24007WA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007WA	WHEAT-FLOUR	21 COOKED-NFS	P	0.000000	0.000030 MT		100.00	0.000030
24007WA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	P	0.000000	0.000030 MT		100.00	0.000030
24007WA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	P	0.000000	0.000030 MT		100.00	0.000030
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	P	0.000000	0.000030 MT		100.00	0.000030
25002SA	BEET SUGAR	21 COOKED-NFS	P	0.000000	0.040000 F		5.00	0.002000
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	P	0.000000	0.040000 F		5.00	0.002000
25002SA	BEET SUGAR	31 COOKED-FRESH OR CANNED	P	0.000000	0.040000 F		5.00	0.002000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	P	0.000000	0.000100 MT		100.00	0.000100
270030A	COTTONSEED-OIL	18 PROCESSED OIL	P	0.000000	0.000200 MT		100.00	0.000200
27003VA	COTTONSEED-MEAL	18 PROCESSED OIL	P	0.000000	0.000200 MT		100.00	0.000200
270070A	PEANUTS-OIL	18 PROCESSED OIL	P	0.000000	0.000600 MT		100.00	0.000600
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	P	0.000000	0.010300 M		29.00	0.002987
43058AA	WINE AND SHERRY	21 COOKED-NFS	P	0.000000	0.010300 M		29.00	0.002987
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	P	0.000000	0.000300 M		100.00	0.000300
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	P	0.000000	0.000300 M		100.00	0.000300
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	P	0.000000	0.000300 M		100.00	0.000300
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	P	0.000000	0.000300C M		100.00	0.000300
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	P	0.000000	0.000300C M		100.00	0.000300
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	P	0.000000	0.000300C M		100.00	0.000300
50000SA	MILK SUG (LACT)	21 COOKED-NFS	P	0.000000	0.000300 M		100.00	0.000300
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	P	0.000000	0.000300 M		100.00	0.000300
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	P	0.000000	0.000100 M		100.00	0.000100

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
EBDC PARENT Caswell #999ZZZ CAS No. A.I. CODE: CFR No. 180.	NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:		UF -->0 OPP Rfd= 1.000000 EPA Rfd= 1.000000	VALUE OF 1.0 IS NOT ACTUAL RFD	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001BA	BEEF-MEAT BYP	26	P 0.000000	0.000100	M	100.00	0.000100
53001BB	BEEF-OTH ORGAN	21	P 0.000000	0.000100	M	100.00	0.000100
53001BB	BEEF-OTH ORGAN	51	P 0.000000	0.000100	M	100.00	0.000100
53001DA	BEEF-DRIED	21	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	10	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	21	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	22	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	23	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	24	P 0.000000	0.000100	M	100.00	0.000100
53001FA	BEEF-FAT	25	P 0.000000	0.000100	M	100.00	0.000100
53001KA	BEEF-KIDNEY	21	P 0.000000	0.000100	M	100.00	0.000100
53001LA	BEEF-LIVER	25	P 0.000000	0.000100	M	100.00	0.000100
53001LA	BEEF-LIVER	31	P 0.000000	0.000100	M	100.00	0.000100
53001MA	BEEF-LEAN	10	P 0.000000	0.000100	M	100.00	0.000100
53001MA	BEEF-LEAN	21	P 0.000000	0.000100	M	100.00	0.000100
53001MA	BEEF-LEAN	22	P 0.000000	0.000100	M	100.00	0.000100
53001MA	BEEF-LEAN	23	P 0.000000	0.000100	M	100.00	0.000100
53001MA	BEEF-LEAN	24	P 0.000000	0.000100	M	100.00	0.000100
53002FA	GOAT-FAT	25	P 0.000000	0.000100	MT	100.00	0.000100
53002FA	GOAT-FAT	25	P 0.000000	0.000100	MT	100.00	0.000100
53002HA	GOAT-LEAN	23	P 0.000000	0.000100	MT	100.00	0.000100
53002HA	GOAT-LEAN	25	P 0.000000	0.000100	MT	100.00	0.000100
53005BA	SHEEP-MEAT BYP	21	P 0.000000	0.000100	MT	100.00	0.000100
53005BB	SHEEP-OTH ORGAN	21	P 0.000000	0.000100	MT	100.00	0.000100
53005FA	SHEEP-FAT	21	P 0.000000	0.000100	MT	100.00	0.000100
53005KA	SHEEP-KIDNEY	21	P 0.000000	0.000100	MT	100.00	0.000100
53005MA	SHEEP-LEAN	21	P 0.000000	0.000100	MT	100.00	0.000100
53005MA	SHEEP-LEAN	31	P 0.000000	0.000100	MT	100.00	0.000100
53006BA	PORK-MEAT BYP	21	P 0.000000	0.000100	MT	100.00	0.000100
53006BB	PORK-OTH ORGAN	21	P 0.000000	0.000100	MT	100.00	0.000100
53006BB	PORK-OTH ORGAN	26	P 0.000000	0.000100	MT	100.00	0.000100
53006FA	PORK-FAT	10	P 0.000000	0.000100	MT	100.00	0.000100
53006FA	PORK-FAT	21	P 0.000000	0.000100	MT	100.00	0.000100
53006FA	PORK-FAT	23	P 0.000000	0.000100	MT	100.00	0.000100
53006FA	PORK-FAT	25	P 0.000000	0.000100	MT	100.00	0.000100
53006FA	PORK-FAT	26	P 0.000000	0.000100	MT	100.00	0.000100
53006KA	PORK-KIDNEY	21	P 0.000000	0.000100	MT	100.00	0.000100
53006LA	PORK-LIVER	21	P 0.000000	0.000100	MT	100.00	0.000100
53006LA	PORK-LIVER	25	P 0.000000	0.000100	MT	100.00	0.000100
53006MA	PORK-LEAN	21	P 0.000000	0.000100	MT	100.00	0.000100

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 9992ZZ

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
EBOC PARENT Caswell #9992ZZ CAS No. A.I. CODE: CFR No. 180.		NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:				UF -->0 OPP Rfd= 1.000000 EPA Rfd= 1.000000		VALUE OF 1.0 IS NOT ACTUAL RFD			

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006HA	PORK-LEAN		P 0.000000	0.000100	MT	100.00	0.000100
53006HA	PORK-LEAN		P 0.000000	0.000100	MT	100.00	0.000100

25 COOKED-FRESH-FRIED
 26 COOKED-FRESH-PICKLED,CORNED,OR CURED

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Ethylene thiouracil (ETU) Caswell #443AA CAS No. 96-45-7 A.I. CODE: 600016 CFR No. 180.	2yr feeding- rat NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: B2 (CAG/HED)	Increased incidence of thyroid hyperplasia. Evidence of oncogenicity in rats (thyroid) and mice (liver).	PADI UF -->3000 OPP Rfd= 0.000080 EPA Rfd= 0.000080 q*: 0.11000	Reproduction- rat Chronic feeding- dog UF 3000 for data gaps, lack of NOEL. q* calculated. EBDC plant metabolite.	EPA verified 12/09/86 HED reassess 10/30/87 EPA deferred 02/25/88 WHO last reviewed 1988 EPA verified 02/20/91 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)
13009AA	COLLARDS	51 COOKED-CANNED	P	0.000000	0.240000	FT	100.00	0.240000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	P	0.000000	0.200000	FT	100.00	0.200000
13021AA	MUSTARD GREENS	21 COOKED-NFS	P	0.000000	0.200000	FT	100.00	0.200000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	P	0.000000	0.200000	FT	100.00	0.200000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	P	0.000000	0.050000	FT	100.00	0.050000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	P	0.000000	0.200000	FT	100.00	0.200000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	P	0.000000	0.200000	FT	100.00	0.200000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999ZZZ

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
EBDC PARENT Caswell #999ZZZ CAS No. A.I. CODES: CFR NO. 180.	NOEL= 0.0000 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:		UF -->0 OPP Rfd= 1.000000 EPA Rfd= 1.000000	VALUE OF 1.0 IS NOT ACTUAL RFD	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13009AA	COLLARDS		P 0.000000	0.004000	FT	100.00	0.004000
13009AA	COLLARDS		P 0.000000	0.025000	FT	100.00	0.025000
13021AA	MUSTARD GREENS		P 0.000000	0.025000	FT	100.00	0.025000
13021AA	MUSTARD GREENS		P 0.000000	0.025000	FT	100.00	0.025000
13026AA	TURNIPS-TOPS		P 0.000000	0.760000	FT	100.00	0.760000
13026AA	TURNIPS-TOPS		P 0.000000	0.023000	FT	100.00	0.023000
13026AA	TURNIPS-TOPS		P 0.000000	0.023000	FT	100.00	0.023000

CHLORO. PUB USES

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm ONCO: B2 (HED NOTE)	Renal tubular vacuolization. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.015000 EPA RfD= 0.015000 q*: 0.01100	No data gaps. q* calculated.	HED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 RfD/PR reviewed 01/27/94 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)
01010AA	CRANBERRIES	66 RAW-FRESH OR NFS	2E2939	P 5.000000	0.012000	MONITORING	100.00	0.012000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2939	P 5.000000	0.012000	MONITORING	100.00	0.012000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	0.012000	MONITORING	100.00	0.012000
01010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2939	P 5.000000	0.012000	MONITORING	100.00	0.012000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	0.012000	MONITORING	100.00	0.012000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05001AA	APRICOTS-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002DA	CHERRIES-DRIED	00 NO CONSUMPTION ESTIMATE	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	3F1382	P 0.500000	0.047000	MONITORING	100.00	0.047000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.000500	MONITORING	100.00	0.000500
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05004AA	PEACHES-FRESH	51 COOKED-CANNED	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05004DA	PEACHES-DRIED	21 COOKED-NFS	3F1382	P 0.500000	0.000520	MONITORING	100.00	0.000520
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005DA	PLUMS-PRUNES	21 COOKED-NFS	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	2F2602	P 0.200000	0.000550	MONITORING	100.00	0.000550
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06002AB	BANANAS-FRESH	21 COOKED-NFS	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06002DA	BANANAS-DRIED	31 COOKED-FRESH OR CANNED	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06010AA	PAPAYAS-UNSPEC	21 COOKED-NFS	6E1761	P 15.000000	0.005000	MONITORING	100.00	0.005000
06010AB	PAPAYAS-PULP	00 NO CONSUMPTION ESTIMATE	6E1761	P 15.000000	0.005000	MONITORING	100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6E1761	P 15.000000	0.005000	MONITORING	100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6E1761	P 15.000000	0.005000	MONITORING	100.00	0.005000

PUBLISHED USES

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm OMCO: B2 (HED NOTE)	Renal tubular vacuolization. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP Rfd= 0.015000 EPA Rfd= 0.015000 q*: 0.01100	No data gaps. q* calculated.	MED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 Rfd/PR reviewed 01/27/94 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)
060100A	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6E1761	P 15.00000	0.005000	MONITORING	100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	631761	P 15.00000	0.005000	MONITORING	100.00	0.005000
06014AA	PASSION FRUIT	00 NO CONSUMPTION ESTIMATE	5E1569	P 3.000000	3.000000	NOT AVAILABLE	100.00	3.000000
06016AA	PLANTAINS	21 COOKED-NFS	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	8F2067	P 0.050000	0.000500	MONITORING	100.00	0.000500
07001FA	COCOA BUTTER	21 COOKED-NFS	2E2744	P 0.050000	0.050000	NOT AVAILABLE	100.00	0.050000
07001SA	CHOCOLATE	10 RAW-FRESH OR NFS	2E2744	P 0.050000	0.050000	NOT AVAILABLE	100.00	0.050000
07001SA	CHOCOLATE	21 COOKED-NFS	2E2744	P 0.050000	0.050000	NOT AVAILABLE	100.00	0.050000
07001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	2E2744	P 0.050000	0.050000	NOT AVAILABLE	100.00	0.050000
07002AA	COFFEE	21 COOKED-NFS	2E2744	P 0.200000	0.020000	PROCESSING	100.00	0.020000
10002AA	CANTALOUPE-UNSP	00 NO CONSUMPTION ESTIMATE	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10003AA	CASABAS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10004AA	CRENSHAW	00 NO CONSUMPTION ESTIMATE	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10007AA	PERSON MELONS	00 NO CONSUMPTION ESTIMATE	1F1024	P 5.000000	0.008300	MONITORING	100.00	0.008300
10008AA	WATERMELON	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.003500	MONITORING	100.00	0.003500
10008AA	WATERMELON	21 COOKED-NFS	1F1024	P 5.000000	0.003500	MONITORING	100.00	0.003500
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.003000	MONITORING	100.00	0.003000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	1F1024	P 5.000000	0.003000	MONITORING	100.00	0.003000
10010AA	CUCUMBERS	21 COOKED-NFS	1F1024	P 5.000000	0.003000	MONITORING	100.00	0.003000
10011AA	PUMPKIN	21 COOKED-NFS	1F1024	P 5.000000	0.003500	MONITORING	100.00	0.003500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	0.003500	MONITORING	100.00	0.003500
10013AA	SQUASH-SUMMER	62 COOKED-FRESH OR FROZEN-BAKED	1F1024	P 5.000000	0.003800	MONITORING	100.00	0.003800
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.003800	MONITORING	100.00	0.003800
10013AA	SQUASH-SUMMER	21 COOKED-NFS	1F1024	P 5.000000	0.003800	MONITORING	100.00	0.003800
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.009500	MONITORING	100.00	0.009500
10014AA	SQUASH-WINTER	21 COOKED-NFS	1F1024	P 5.000000	0.009500	MONITORING	100.00	0.009500
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.009500	MONITORING	100.00	0.009500
10017AA	BITTER MELON	21 COOKED-NFS	1F1024	P 5.000000	0.009500	MONITORING	100.00	0.009500
10020AA	TOMELGOURD	00 NO CONSUMPTION ESTIMATE	1F1024	P 5.000000	0.009500	MONITORING	100.00	0.009500
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.035000	MONITORING	100.00	0.035000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	1F1024	P 5.000000	0.035000	MONITORING	100.00	0.035000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.035000	MONITORING	100.00	0.035000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.008800C	MONITORING	100.00	0.008800
11005JA	TOMATOES-JUICE	21 COOKED-NFS	1F1024	P 5.000000	0.008800C	MONITORING	100.00	0.008800
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005RA	TOMATOES-PUREE	21 COOKED-NFS	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 2158

CHEMICAL Chlorothalonil Caswell #2158 CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	STUDY TYPE 2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm ONCO: B2 (HED NOTE)	EFFECTS Renal tubular vacuolization. Evidence of carcinogenicity in rats & mice (kidney).	REFERENCE DOSES ADI UF -->100 OPP RfD= 0.015000 EPA RfD= 0.015000	DATA GAPS/COMMENTS No data gaps.	STATUS HED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 RfD/PR reviewed 01/27/94 On IRIS.
			q*: 0.01100	q* calculated.	

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005TA	TOMATOES-PASTE	21 COOKED-NFS	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	1F1024	P 5.000000	0.000710C	MONITORING	100.00	0.000710
13002AA	CELERY	10 RAW-FRESH OR NFS	7F0599	P 15.000000	0.520000	MONITORING	100.00	0.520000
13002AA	CELERY	21 COOKED-NFS	7F0599	P 15.000000	0.520000	MONITORING	100.00	0.520000
13005AA	BROCCOLI	21 COOKED-NFS	7F0599	P 5.000000	0.003600	MONITORING	100.00	0.003600
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	7F0599	P 5.000000	0.003600	MONITORING	100.00	0.003600
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	7F0599	P 5.000000	0.003600	MONITORING	100.00	0.003600
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	7F0599	P 5.000000	0.001500	MONITORING	100.00	0.001500
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	7F0599	P 5.000000	0.001500	MONITORING	100.00	0.001500
13007AA	CABBAGE	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.019000	MONITORING	100.00	0.019000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F0599	P 5.000000	0.019000	MONITORING	100.00	0.019000
13007AA	CABBAGE	21 COOKED-NFS	7F0599	P 5.000000	0.019000	MONITORING	100.00	0.019000
13008AA	CAULI FLOWER	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.002000	MONITORING	100.00	0.002000
13008AA	CAULI FLOWER	21 COOKED-NFS	7F0599	P 5.000000	0.002000	MONITORING	100.00	0.002000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.002700	MONITORING	100.00	0.002700
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	7F0599	P 5.000000	0.002700	MONITORING	100.00	0.002700
13016AA	FENNEL	00 NO CONSUMPTION ESTIMATE	7F0599	P 15.000000	0.520000	TRANSLATION	100.00	0.520000
14003AA	CARROTS	10 RAW-FRESH OR NFS	7E1887	P 1.000000	0.002200	MONITORING	100.00	0.002200
14003AA	CARROTS	21 COOKED-NFS	7E1887	P 1.000000	0.002200	MONITORING	100.00	0.002200
14003AA	CARROTS	23 COOKED-FRESH-BOILED	7E1887	P 1.000000	0.002200	MONITORING	100.00	0.002200
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	7E1887	P 1.000000	0.002200	MONITORING	100.00	0.002200
14003AA	CARROTS	51 COOKED-CANNED	7E1887	P 1.000000	0.002200	MONITORING	100.00	0.002200
14007AA	GARLIC	10 RAW-FRESH OR NFS	4E1502	P 0.500000	0.000500	MONITORING	100.00	0.000500
14007AA	GARLIC	21 COOKED-NFS	4E1502	P 0.500000	0.000500	MONITORING	100.00	0.000500
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	4E1502	P 0.500000	0.000500	MONITORING	100.00	0.000500
14010AA	LEEKS	31 COOKED-FRESH OR CANNED	4E1502	P 0.500000	0.005000	MONITORING	100.00	0.005000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	4E1502	P 0.500000	0.002200	MONITORING	100.00	0.002200
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	4E1502	P 0.500000	0.002200	MONITORING	100.00	0.002200
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	4E1502	P 0.500000	0.002200	MONITORING	100.00	0.002200
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	4E1502	P 0.500000	0.002200	MONITORING	100.00	0.002200
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	4E1502	P 0.500000	0.002200	MONITORING	100.00	0.002200
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm ONCO: B2 (HED NOTE)	Renal tubular vacuolizat- ion. Evidence of carcinogenic- ity in rats & mice (kid- ney).	ADI UF -->100 OPP Rfd= 0.015000 EPA Rfd= 0.015000 q*: 0.01100	No data gaps. q* calculated.	HED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 Rfd/PR reviewed 01/27/94 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)
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	9F9743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	9F9743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14013DA	POTATO(WH)-DRY	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.000500	MONITORING	100.00	0.000500
14017AA	SHALLOTS	00 NO CONSUMPTION ESTIMATE	4E1502	P 5.000000	5.000000	NOT AVAILABLE	100.00	5.000000
14021AA	PARSNIPS	21 COOKED-NFS	7E1887	P 1.000000	0.000500	MONITORING	100.00	0.000500
15001AA	BEANS-DRY-GRY NO 00	NO CONSUMPTION ESTIMATE	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AB	BEANS-DRY-KIDNEY 21	COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AB	BEANS-DRY-KIDNEY 31	COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AE	BEANS-DRY-OTHER 21	COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AE	BEANS-DRY-OTHER 25	COOKED-FRESH-FRIED	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AE	BEANS-DRY-OTHER 31	COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15001AF	BEANS-DRY-PINTO 21	COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15003AA	BEANS-SUCC-GREEN 21	COOKED-NFS	1F1024	P 5.000000	0.002600	MONITORING	100.00	0.002600
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	7F0599	P 1.000000	0.000500	MONITORING	100.00	0.000500
15005AA	CORN, SWEET	21 COOKED-NFS	7F0599	P 1.000000	0.000500	MONITORING	100.00	0.000500
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	7F0599	P 1.000000	0.000500	MONITORING	100.00	0.000500
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 0.300000	0.003500	MONITORING	100.00	0.003500
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	1F1024	P 0.300000	0.003500	MONITORING	100.00	0.003500
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	1F1024	P 0.300000	0.003500	MONITORING	100.00	0.003500
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15013AA	MUNG BEANS	21 COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NO CONSUMPTION ESTIMATE	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15023AA	BEANS-DRY-PIGEON 21	COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15029AA	SOYBEAN-SPROUTED 00	NO CONSUMPTION ESTIMATE	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
15030AA	BEANS-DRY-HYAC	00 NO CONSUMPTION ESTIMATE	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15031AA	BLKEYE PEAS-DRY 21	COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15032AA	BEANS-DRY	21 COOKED-NFS	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.005000	MONITORING	100.00	0.005000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	4E1502	P 5.000000	5.000000	NOT AVAILABLE	100.00	5.000000
16004AA	ONIONS-GREEN	21 COOKED-NFS	4E1502	P 5.000000	5.000000	NOT AVAILABLE	100.00	5.000000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	4E1502	P 5.000000	5.000000	NOT AVAILABLE	100.00	5.000000
270070A	PEANUTS-OIL	18 PROCESSED OIL	1F1024	P 0.300000	0.003500	MONITORING	100.00	0.003500
270100A	SOYBEANS-OIL	18 PROCESSED OIL	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm OMCO: 82 (HED NOTE)	Renal tubular vacuolization. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP Rfd= 0.015000 EPA Rfd= 0.015000 q*: 0.01100	No data gaps. q* calculated.	HED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 Rfd/PR reviewed 01/27/94 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
28023AA	SOYBEANS-UNSPEC	21	COOKED-NFS	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	10	RAW-FRESH OR NFS	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	21	COOKED-NFS	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	23	COOKED-FRESH-BOILED	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	25	COOKED-FRESH-FRIED	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	31	COOKED-FRESH OR CANNED	0.000050	MONITORING	100.00	0.000050
28023WA	SOY-FL, FULL FAT	21	COOKED-NFS	0.000050	MONITORING	100.00	0.000050
28023WA	SOY-FL, FULL FAT	22	COOKED-FRESH-BAKED	0.000050	MONITORING	100.00	0.000050
28023WA	SOY-FL, FULL FAT	31	COOKED-FRESH OR CANNED	0.000050	MONITORING	100.00	0.000050
28023WB	SOY-FL, LOW FAT	21	COOKED-NFS	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL, DEFAT	10	RAW-FRESH OR NFS	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL, DEFAT	21	COOKED-NFS	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL, DEFAT	22	COOKED-FRESH-BAKED	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL, DEFAT	51	COOKED-CANNED	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL, DEFAT	53	COOKED-CANNED-BOILED	0.000050	MONITORING	100.00	0.000050
28080AA	PEPPERMINT	00		2.000000	NOT AVAILABLE	100.00	2.000000
28080AA	PEPPERMINT-OIL	00		2.000000	NOT AVAILABLE	100.00	2.000000
28081AA	SPEARMINT	00		2.000000	NOT AVAILABLE	100.00	2.000000
28081AA	SPEARMINT-OIL	00		2.000000	NOT AVAILABLE	100.00	2.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	2yr feeding- dog NOEL= 1.5000 mg/kg 60.00 ppm LEL= 3.0000 mg/kg 120.00 ppm ONCO: B2 (HED NOTE)	Renal tubular vacuolization. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP Rfd= 0.015000 EPA Rfd= 0.015000 q*: 0.01100	No data gaps.	HED complete 03/14/86 EPA verified 04/08/86 WHO last reviewed 1990 Rfd/PR reviewed 01/27/94 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)
13009AA	COLLARDS	51 COOKED-CANNED	18	N 0.000000	4.250000		100.00	4.250000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	18	N 0.000000	4.250000		100.00	4.250000
13021AA	MUSTARD GREENS	21 COOKED-NFS	18	N 0.000000	4.250000		100.00	4.250000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	18	N 0.000000	4.250000		100.00	4.250000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	18	N 0.000000	4.250000		100.00	4.250000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	18	N 0.000000	4.250000		100.00	4.250000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	18	N 0.000000	4.250000		100.00	4.250000

DOCKET FILE ENTRY
DOCUMENT COVER SHEET

CBI: Appendix In-Text No CBI

Docket No. 30 000 / 18F Chemical EBDC

Pre-SR PD1 PD2/3 PD4 Reg Std

Post
SR

Document Title Special Review for maneb (EBDC) Use on Turnips, Collards, and Mustard Greens, DRES Dietary Exposure and Risk Estimates Doc Date 6/3/94

Author/Affiliation Richard Griffin | HED/EPA

Submitter/Affiliation _____ | _____

Doc Distributed in Meeting Meeting Date / /

Doc rec'd/sent by mail or hand delivered Date rec'd/sent / /

Your name/office Amy Porter | SRRD/EPA

NO Return of document requested?

Remarks _____

To Be Completed by ISS

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