

US EPA ARCHIVE DOCUMENT



Attachment 3

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

SEP 26 1997

Memorandum

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Dietary Exposure Analysis for the Use of Chlorothalonil

FROM: Brian Steinwand *(S)*
Dietary Risk Evaluation Section
Chemistry Exposure Branch 1 /HED (7509C)

TO: K. Whitby, Chief
RCAB (7509C)

THROUGH: Bart Suhre, Senior Scientist *B.Suhre*
CEB1/Health Effects Division

Action Requested

Provide a chronic, acute and carcinogenic risk assessment for the use of chlorothalonil and its metabolite 4-hydroxy-2,5,6-trichloroisophthalonitrile (SDS-3701) using updated anticipated residues (ARs) supplied by CBRS (See memo, W. Smith, 6/13/95). Chlorothalonil has an impurity, Hexachlorobenzene (HCB), which should also be considered in the dietary risk assessment for registration.

Discussion

This analysis includes the pending uses on pistachios, asparagus, mangoes, almonds, and non-bell peppers.

The chronic analysis for chlorothalonil used tolerance level residues and percent crop treated information (See Tables 1, 2, 3), while the chronic analysis for HCB included Anticipated Residues (ARs) and percent crop treated (See Tables 4, 5, and 6). The cancer analyses for chlorothalonil was performed using a non-linear methodology (MOE) approach (See Tables 7), while the cancer analysis for HCB used a Q* approach (Table 8) and used anticipated residues. The acute analysis on chlorothalonil also used tolerance level residues.

For chronic analyses for HCB, a surrogate assessment as chlorothalonil was conducted. This step was taken because the existing DRES software cannot accommodate values less than 0.000001 mg/kg/day. Smaller values are truncated and the data is ignored, possibly resulting in an artificially lowered ARC. For meat, milk, poultry and eggs in the cancer assessment for which no actual chlorothalonil residues occur, the chlorothalonil equivalents were calculated for inclusion in the assessment by dividing the actual HCB values provided in the chemistry chapter by 0.0005, the contaminant level of HCB in chlorothalonil. After the analysis, all ARC values used in the assessments were converted to HCB from chlorothalonil equivalents by multiplying the ARC by 0.0005 mg/HCB per 1 mg chlorothalonil.

Toxicological Endpoint:

Chlorothalonil

The DRES chronic exposure analysis used a Reference Dose (RfD) of 0.02 mg/kg bwt/day based on a No Observed Effect Level (NOEL) of 2.0 mg/kg bwt/day and an uncertainty factor of 100 (See IRIS). The NOEL is based on a cancer study in rats which demonstrated as effects kidney weight changes, and incidences of epithelial hyperplasia in both proximal convoluted tubules of the kidney.

Chlorothalonil has been classified as a group B2 (probable human carcinogen) by the HED Carcinogenicity Peer Review Committee based upon evidence of carcinogenicity in rats and mice (E. Rinde memo, 7/20/88). As no Q₁* is required to support registrations, it is recommended that a non-linear methodology (MOE) be applied for the estimation of human cancer risk.

$$\rightarrow \text{NOEL} = 1.5 \text{ mg/kg/day}$$

The endpoint for acute dietary risk assessment is the Developmental LOEL (175 mg/kg/day) from the rat developmental toxicity study (See Toxicology Endpoint Selection Document).

Hexachlorobenzene (HCB)

The DRES chronic exposure analysis used a Reference Dose (RfD) of 0.0008 mg/kg bwt/day, based on a No Observed Effect Level (NOEL) of 0.08 mg/kg bwt/day and an uncertainty factor of 100. The NOEL was taken from a 130 week feeding study in rats which demonstrated effects such as hepatic centrilobular basophilic chromogenesis. This value has been approved by both

2

HED (9/28/87) and Agency (6/22/88).

HCB has been classified as a group B2, probable human carcinogen by the CAG. The Q_1^* for quantitation of human oral risk is $1.02 \text{ (mg/kg/day)}^{-1}$ (W. Burnam memo to E. Doyle and K. Whitby, 6/21/95).

Residue Information

Tolerances for chlorothalonil are published in 40 CFR § 180.275.

Anticipated Residues: Anticipated residues have been provided to DRES. One set of residues has been provided for chlorothalonil and another for residues of the contaminant, HCB (W. Smith memo, 6/13/95). US FDA monitoring data (1988-1993), USDA PDP survey data (1992-1994 partial), and field trial data are types of anticipated residue data provided for HCB and chlorothalonil.

Residues of HCB were generally estimated to be present at a level not exceeding 0.05% of the residues of chlorothalonil. This is equivalent to the maximum level of HCB that is allowed in formulations of chlorothalonil.

Results

A summary of the residue information considered in the chlorothalonil analysis is attached as Table 1 and in Table 4 for HCB. A DRES carcinogenic analysis was performed to estimate the Anticipated Residue Contribution (ARC) for the general population. Summaries of the ARCs and their representations as percentages of the Reference Dose (RfD) for the general population and 22 subgroups are included as Table 2 and 3 for chlorothalonil and Table 5 and 6 for HCB. Summaries of the carcinogenic risk and of the commodity contribution by raw agricultural commodity (RAC) for the overall U.S. population are attached as Table 7 for chlorothalonil and Table 8 for HCB. A summary of the acute dietary risk on the parent compound of chlorothalonil is attached as Table 9.

3

Chlorothalonil Chronic Exposure Analysis

Exposure from Existing ARs for chlorothalonil:

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>%RfD</u>
U.S. Population	0.005245	26.2
Non-Nursing Infants (<1 year old)	0.008656	43.3

Exposure from new tolerances:

U.S. Population	0.000066	.330
Non-Nursing Infants (<1 year old)	0.000044	.219

If the new and pending ARs are approved :

U.S. Population	0.006474	32.3
Non-Nursing Infants (<1 year old)	0.011998	60.0

Based on the exposure estimates arrived at by this analysis, the dietary risk to all sub-populations from chlorothalonil appears to be minimal at the recommended tolerances.

Acute Exposure:

The DRES detailed acute analysis estimates the distribution of single-day exposures for the overall U.S. population and certain subgroups. The analysis evaluates individual food consumption as reported by respondents in the USDA 1977-78 Nationwide Food Consumption Survey (NFCS) and accumulates exposure to the chemical for each commodity. Each analysis assumes uniform distribution of chlorothalonil in the commodity supply.

The Margin of Exposure (MOE) is a measure of how close the high end exposure comes to the LOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure (LOEL/exposure = MOE). Generally, acute dietary margins of exposure greater than 300 (when the endpoint of concern is a LOEL) tend to cause no dietary concern. The high end MOE for all subgroups was greater than 875 (See Table 9), and is above the acceptable level and demonstrates no acute dietary concern.

2 4

Chlorothalonil Upper Bound Carcinogenic Exposure:

Due to the instability of chlorothalonil per se in meat and milk tissues, residues would not be expected to occur even in the event of misuse. Therefore, residues of chlorothalonil, per se, are not expected to transfer from feed items to meat and milk but residues of SDS-3701 could occur in these commodities. Thus, there is no carcinogenic risk attributable to chlorothalonil from its use on meat and milk.

As no Q₁* is required to support registrations, it is recommended that a non-linear methodology (MOE) be applied for the estimation of human cancer risk. Cancer MOEs are estimated by dividing the carcinogenic NOEL by the chronic exposure. The assessment was conducted for the Total U.S. Population only. Using this approach, the upper bound cancer risk was calculated as follows:

TABLE 7

$$\begin{aligned} \text{Exposure} &= \text{ARC} \\ &= 0.000471 \text{ mg/kg/day} \end{aligned}$$

$$\begin{aligned} \text{MOE} &= \text{NOEL} + \text{Exposure} \\ 1.5 &= \cancel{X} \text{mg/kg/day} + 0.000471 \text{mg/kg/day} \\ &= \cancel{4} \times 46 = 3185 \end{aligned}$$

This figure is above the level which the Agency considers negligible for excess life time cancer risk and is not of concern.

HCB Chronic Exposure Analysis

Exposure from Existing ARs for HCB:

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>%RfD</u>
U.S. Population	0.000134	.008
Children (1-6 years old)	0.000216	.001

Exposure from new uses:

U.S. Population	0.000066	.004
Children (1-6 years old)	0.000044	.002

If the new and pending ARs are approved:

U.S. Population	0.000471	.029
Children (1-6 years old)	0.000804	.050

Based on the exposure estimates arrived at by this analysis, the dietary risk to all sub-populations from HCB appears to be minimal at the recommended tolerances.

HCB Upper Bound Carcinogenic Exposure:

Based on a Q_1^* of $1.02 \text{ (mg/kg/day)}^{-1}$, the upper bound cancer risk was calculated to be 2.4×10^{-7} , contributed through all the published, pending and new uses for HCB.

This upper bound risk is below the range the Agency generally considers negligible for excess life time cancer risk and is no cause for concern. A summary of the commodity contribution by raw agricultural commodity (RAC) for the overall U.S. population subgroup is attached as Table 8.

Conclusions

Chlorothalonil does not pose a significant chronic, acute or carcinogenic dietary risk for uses that are currently published or for uses recommended by CBRS for registration. HCB does not pose a significant chronic or carcinogenic dietary risk for uses that are currently published or for uses recommended by CBRS for registration.

Attachments

cc:DRES, CEB1 (W. Smith), Caswell #215B, RCAB

6

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 09/22/97

PAGE: 1

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				ADI	UF -->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000		
Chlorothalonil Caswell #215B CAS No. 1897-5-6 A.T. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/kg ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	Q*: 0.00766	100.00	100.00 100.00	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 Rfd/PR reviewed 01/27/94 WHO reviewed 1992 Rfd/PR reviewed 05/18/95 On IRIS.
FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REF. #	TOXICITY (ppm)	ANTICIPATED RESIDUE (ppm)	% CROP TREATED
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS 21 COOKED-NFS	0E3889 0E3889	P 1.000000 P 1.000000	1.000000 1.000000		1.000000 1.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	0E3889	P 1.000000	1.000000		1.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	0E3889	P 1.000000	1.000000		1.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2939	P 5.000000	5.000000	MONITORING	3.000000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2939	P 5.000000	5.000000	MONITORING	3.000000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	5.000000	MONITORING	3.000000
01010AA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2939	P 5.000000	5.000000	MONITORING	3.000000
01010AA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	5.000000	MONITORING	3.000000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	SE04558	N 0.050000	0.050000		0.050000
03001AA	ALMONDS	21 COOKED-NFS	SE04558	N 0.050000	0.050000		0.050000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	2E4113	P 0.100000	0.100000		0.100000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	2E4113	P 0.100000	0.100000		0.100000
03005AA	FILBERTS	21 COOKED-NFS	2E4113	P 0.100000	0.100000		0.100000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	2E4113	P 0.100000	0.100000		0.100000
03008AA	PECANS	10 RAW-FRESH OR NFS	7F3471	A 0.020000	0.020000		0.020000
03008AA	PECANS	21 COOKED-NFS	7F3471	A 0.020000	0.020000		0.020000
03008AA	PECANS	22 COOKED-FRESH-BAKED	7F3471	A 0.020000	0.020000		0.020000
03008AA	PECANS	23 COOKED-FRESH-BOILED	7F3471	A 0.020000	0.020000		0.020000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	6E6672	N 0.200000	0.200000		0.200000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	3F1382	P 0.500000	0.500000	MONITORING	0.200000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING	0.200000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.500000	MONITORING	0.200000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.500000	MONITORING	0.200000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	3F1382	P 0.500000	0.500000	MONITORING + PR	0.200000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	3F1382	P 0.500000	0.500000	MONITORING + PR	0.200000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	3F1382	P 0.500000	0.500000	MONITORING + PR	0.200000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING + PR	0.175000
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.500000	MONITORING + PR	0.175000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.500000	MONITORING + PR	0.175000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	3F1382	P 0.500000	0.500000	MONITORING	0.175000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.500000	MONITORING + PR	0.175000
05004DA	PEACHES-DRIED	21 COOKED-NFS	3F1382	P 0.500000	0.500000	MONITORING	0.175000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 09/22/97

PAGE: 2

CHEMICAL	STUDY TYPE	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2,0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC)	ADI UF >>100 OPP Rfd= 0.020000 EPA Rfd= 0.020000 q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.200000	MONITORING	10.00	0.020000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.200000	MONITORING + PR	10.00	0.020000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	2F2602	P 0.200000	0.200000	MONITORING + PR	10.00	0.020000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.200000	MONITORING + PR	10.00	0.020000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.200000	MONITORING + PR	10.00	0.020000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	2F2602	P 0.200000	0.200000	MONITORING + PR	10.00	0.020000
05005JA	PRUNE-JUICE	22 COOKED-FRESH-BAKED	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06002AA	BANANAS-UNSPEC	10 RAW-FRESH OR NFS	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06002AB	BANANAS-FRESH	21 COOKED-NFS	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06002DA	BANANAS-DRIED	21 COOKED-NFS	8F2067	P 0.050000	0.050000	MONITORING	10.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	1E0118	N 1.000000	1.000000	MONITORING	100.00	1.000000
06007AA	MANGOES	21 COOKED-NFS	1E0118	N 1.000000	1.000000	MONITORING	100.00	1.000000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6E1761	P 15.000000	15.000000	MONITORING	100.00	15.000000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6E1761	P 15.000000	15.000000	MONITORING	100.00	15.000000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6E1761	P 15.000000	15.000000	MONITORING	100.00	15.000000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6E1761	P 15.000000	15.000000	MONITORING	100.00	15.000000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	631761	P 15.000000	15.000000	MONITORING	100.00	15.000000
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	SE1569	P 3.000000	3.000000	MONITORING	100.00	3.000000
06016AA	PLANTAINS	21 COOKED-NFS	8F2067	P 0.050000	0.050000	MONITORING	100.00	0.050000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	8F2067	P 0.050000	0.050000	MONITORING	100.00	0.050000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	8F2067	P 0.050000	0.050000	MONITORING	100.00	0.050000
07001FA	COCA BUTTER	21 COOKED-NFS	2E2744	P 0.050000	0.050000	PROCESSING	100.00	0.050000
07001SA	CHOCOLATE	10 RAW-FRESH OR NFS	2E2744	P 0.050000	0.050000	PROCESSING	100.00	0.050000
07001SA	CHOCOLATE	21 COOKED-NFS	2E2744	P 0.050000	0.050000	PROCESSING	100.00	0.050000
07001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	2E2744	P 0.050000	0.050000	PROCESSING	100.00	0.050000
07002AA	COFFEE	21 COOKED-NFS	2E2744	P 0.200000	0.200000	PROCESSING	100.00	0.200000
08048DA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	6F4676	N 5.000000	5.000000	From honeydew	100.00	5.000000
10002AA	CANTALOUPES-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000	MONITORING	30.00	1.500000
10002AB	CANTALOUPES-PULP	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000	MONITORING	30.00	1.500000
10002AB	CANTALOUPES-PULP	21 COOKED-NFS	1F1024	P 5.000000	5.000000	MONITORING	30.00	1.500000
10003AA	CASABAS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000	From honeydew	100.00	5.000000
10004AA	CRESHAWS	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000	From honeydew	100.00	1.000000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000	From honeydew	20.00	5.000000
10007AA	PERSIM MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000	From honeydew	55.00	5.000000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000	MONITORING	55.00	2.750000
10008AA	WATERMELON	21 COOKED-NFS	1F1024	P 5.000000	5.000000	MONITORING	35.00	1.750000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000	MONITORING		

ANTICIPATED RESIDUE INFORMATION FOR CASHMEL NUMBER 215B

DATE: 09/22/97

PAGE: 3

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	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		35.00	1.750000
10010AA	CUCUMBERS	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING		35.00	1.750000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	5.000000 MONITORING		30.00	1.500000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	1F1024	P 5.000000	5.000000 MONITORING		30.00	1.500000
10011AA	PUMPKIN	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING		15.00	0.750000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING		15.00	0.750000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		15.00	0.750000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		15.00	0.750000
10014AA	SQUASH-WINTER	21 COOKED-NFS	1F1024	P 5.000000	0.500000 MONITORING + PR		15.00	0.075000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.500000 MONITORING + PR		15.00	0.075000
10017AA	BITTER MELON	21 COOKED-NFS	1F1024	P 5.000000	5.000000 From honeydew		100.00	5.000000
10020AA	TOEGELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000 From honeydew		100.00	5.000000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	6F4676	N 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	6F4676	N 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	6F4676	N 5.000000	5.000000		100.00	5.000000
11004AA	PIMENTOS	51 COOKED-CANNED	6F4676	N 5.000000	5.000000		100.00	5.000000
11004AA	PIMENTOS	10 RAW-FRESH OR NFS	6F4676	N 5.000000	5.000000		100.00	5.000000
11004AA	PIMENTOS	21 COOKED-NFS	6F4676	N 5.000000	5.000000		100.00	5.000000
11004AA	PIMENTOS	31 COOKED-FRESH OR CANNED	6F4676	N 5.000000	5.000000		100.00	5.000000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING		70.00	3.500000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING		70.00	3.500000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005RA	TOMATOES-PUREE	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005TA	TOMATOES-PASTE	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	1F1024	P 5.000000	5.000000 MONITORING + PR		70.00	3.500000
13002AA	CELERY	10 RAW-FRESH OR NFS	7F0599	P 15.000000	15.000000 MONITORING		85.00	12.750000
13002AA	CELERY	21 COOKED-NFS	7F0599	P 15.000000	5.000000 MONITORING		85.00	12.750000
13003AA	BROCCOLI	21 COOKED-NFS	7F0599	P 5.000000	5.000000 MONITORING		15.00	0.750000
13003AA	BROCCOLI	31 COOKED-FRESH OR FROZEN-BOTTLED	7F0599	P 5.000000	5.000000 MONITORING		15.00	0.750000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOTTLED	7F0599	P 5.000000	5.000000 MONITORING		42.00	2.100000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	7F0599	P 5.000000	5.000000 MONITORING		42.00	2.100000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	7F0599	P 5.000000	5.000000 MONITORING		42.00	2.100000

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	Cancer rat NOEL = 120.00 mg/kg 120.00 ppm	2.0000 mg/kg LEL = 4.0000 mg/kg 120.00 ppm	Incr urinary bilirubin Levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	AD1 UF -->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.

RES. VALUE USED IN TAS RUN (ppm)	FOOD CODE	FOOD	FOOD FORM	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED
TOLERANCE (ppm)	PET.#					
2.500000	CABAGE	10 RAW-FRESH OR NFS	MONITORING	50.00		
2.500000	CABAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	MONITORING + PR	50.00		
2.500000	CABAGE	21 COOKED NFS	MONITORING + PR	50.00		
1.000000	CAULIFLOWER	10 RAW-FRESH OR NFS	MONITORING	20.00		
1.000000	CAULIFLOWER	21 COOKED NFS	MONITORING	20.00		
5.000000	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	MONITORING	100.00		
5.000000	CABBAGE-CHINESE	21 COOKED NFS	MONITORING	100.00		
15.000000	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	MON (CELERIY)	15.000000		
0.350000	CARROTS	10 RAW-FRESH OR NFS	MONITORING	35.00		
0.350000	CARROTS	21 COOKED NFS	MONITORING + PR	35.00		
0.350000	CARROTS	23 COOKED-FRESH-BILLED	MONITORING + PR	35.00		
0.350000	CARROTS	31 COOKED-FRESH OR CANNED	MONITORING + PR	35.00		
0.350000	CARROTS	51 COOKED-CANNED	MONITORING + PR	35.00		
0.050000	GARLIC	10 RAW-FRESH OR NFS	MONITORING	10.00		
0.050000	GARLIC	21 COOKED NFS	MONITORING	10.00		
0.050000	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	MONITORING	10.00		
3.250000	LEAKS	31 COOKED-FRESH OR CANNED	MONITORING	65.00		
0.325000	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	MONITORING	65.00		
0.325000	ONIONS-DRY-BULB	21 COOKED NFS	MONITORING	65.00		
0.325000	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	MONITORING	65.00		
0.325000	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	MONITORING	65.00		
0.325000	ONIONS-DRIED	12 RAW-FRESH-DRIED	MONITORING	65.00		
0.030000	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	MONITORING	30.00		
0.030000	POTATO(WH)-WHOLE	21 COOKED NFS	MONITORING	30.00		
0.030000	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	MONITORING	30.00		
0.030000	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	MONITORING	30.00		
0.030000	POTATO(WH)-PULP	21 COOKED NFS	MONITORING	30.00		
0.030000	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	MONITORING	30.00		
0.030000	POTATO(WH)-PULP	23 COOKED-FRESH-BILLED	MONITORING	30.00		
0.030000	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	MONITORING	30.00		
0.030000	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	MONITORING	30.00		
0.030000	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	MONITORING	30.00		
0.030000	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	MONITORING	30.00		
0.030000	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	MON-BULB ONIONS	100.00		
5.000000	PARSNIPS	21 COOKED NFS	MONITORING	10.00		
2.00	BEANS-DRY-GRT	NO 00 NOT SPECIFIED (NO CONSUMPTION)	MONITORING	2.00		
0.002000	BEANS-DRY-KIDNEY	21 COOKED NFS	MONITORING	0.002000		
0.002000	BEANS-DRY-LIMA	21 COOKED-FRESH OR CANNED	MONITORING	0.002000		
0.002000	BEANS-DRY-NAVY	21 COOKED NFS	MONITORING	0.002000		

ANTICIPATED RESIDUE INFORMATION FOR CASHMEL NUMBER 215B

DATE: 09/22/97

PAGE: 5

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Cashwell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/g ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	1F1024	P 5.000000	5.000000	MONITORING + PR	40.00	2.000000
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	7F0599	P 1.000000	1.000000	MONITORING	5.00	0.050000
15005AA	CORN, SWEET	21 COOKED-NFS	7F0599	P 1.000000	1.000000	MONITORING	5.00	0.050000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	7F0599	P 1.000000	1.000000	MONITORING	5.00	0.050000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 0.300000	0.300000	MONITORING	90.00	0.270000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	1F1024	P 0.300000	0.300000	MONITORING	90.00	0.270000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	8E2065	P 0.100000	0.100000	MONITORING	100.00	0.100000
15006AA	MUNG BEANS	10 RAW-FRESH OR NFS	8E2065	P 0.100000	0.100000	MONITORING	100.00	0.100000
15013AA	MUNG BEANS	21 COOKED-NFS	8E2065	P 0.100000	0.100000	MONITORING	100.00	0.100000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15022AA	BEANS-DRY-PIGEON	21 COOKED-NFS	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15022AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	6F1799	P 0.200000	0.200000	MONITORING	100.00	0.200000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
15032AA	BEANS-DRY	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.100000	MONITORING	2.00	0.002000
16002AA	BEANS-DRY	21 COOKED-FRESH OR CANNED	2E04042	N 0.100000	0.100000	MONITORING	100.00	0.100000
16002AA	ASPARAGUS	21 COOKED-NFS	2E04042	N 0.100000	0.100000	MONITORING	100.00	0.100000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	21 COOKED-NFS	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	31 COOKED - FRESH OR CANNED	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	6E3410	P 1.000000	1.000000	FIELD TRIALS	65.00	3.250000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	4E1502	P 5.000000	5.000000	MONITORING	65.00	3.250000
16004AA	ONIONS-GREEN	21 COOKED-NFS	4E1502	P 5.000000	5.000000	MONITORING	65.00	3.250000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
270070A	PEANUTS-OIL	18 PROCESSED OIL	1F1024	P 0.300000	0.300000	MONITORING + PR	90.00	0.270000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	6F1799	P 0.200000	0.200000	MONITORING + PR	1.00	0.002000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023WA	SOY-FL, FULL	21 COOKED-NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023WA	SOY-FL, FULL	22 COOKED-FRESH-BAKED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000

//

ANTICIPATED RESIDUE INFORMATION FOR CASHMILL NUMBER 215B

DATE: 09/22/97

PAGE: 6

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalanol Cashmill #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF ->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE RESIDUE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN' (ppm)
28023NA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023HB	SOY-FL, LOW FAT	21 COOKED-NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023WC	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023YC	SOY-FL, DEFAT	21 COOKED-NFS	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023VC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023WC	SOY-FL, DEFAT	51 COOKED-CANNED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28023YC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	6F1799	P 0.200000	0.200000	MONITORING	1.00	0.002000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000	MONITORING	100.00	2.000000
28080DA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000	MONITORING	100.00	2.000000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000	MONITORING	100.00	2.000000
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000	MONITORING	100.00	2.000000
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CURED	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001DA	BEEF-DRIED	21 COOKED-NFS	6F4611	A 0.030000	0.030000	MONITORING	100.00	0.030000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001FA	BEEF-FAT	21 COOKED-NFS	6F4611	A 0.000000	0.000000	MONITORING	100.00	0.000000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001FA	BEEF-KIDNEY	21 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.100000	MONITORING	100.00	0.100000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	6F4611	A 0.030000	0.030000	MONITORING	100.00	0.030000
53001MA	BEEF-LEAN	21 COOKED-NFS	6F4611	A 0.030000	0.030000	MONITORING	100.00	0.030000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	6F4611	A 0.030000	0.030000	MONITORING	100.00	0.030000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	6F4611	A 0.030000	0.030000	MONITORING	100.00	0.030000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.050000	0.050000	MONITORING	100.00	0.050000

12

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 215B

DATE: 09/22/97

PAGE: 7

CHEMICAL	STUDY TYPE		EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		RES. VALUE USED IN TAS RUN (ppm)	STATUS
	Food Code	Food			PET.#	Anticipated Residue (ppm)	AR Statistic Type	
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/kg ONCO: B2 (HCPRC)	Cancer-rat NOEL= 120.00 ppm LEL= 120.00 ppm	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 Q*: 0.00766	No data gaps.	0.100000	100.00	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.500000	0.500000	0.500000	100.00	0.500000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53003AA	HORSE-FAT	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.500000	0.500000	0.500000	100.00	0.500000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53005FA	SHEEP-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	6F4611	A 0.500000	0.500000	0.500000	100.00	0.500000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53005MA	SHEEP-LEAN	21 COOKED-NFS	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53006FA	PORK-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.100000	0.100000	100.00	0.100000
53006KA	PORK-KIDNEY	21 COOKED-NFS	6F4611	A 0.500000	0.500000	0.500000	100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-NFS	6F4611	A 0.050000	0.050000	0.050000	100.00	0.050000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53006MA	PORK-LEAN	25 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.030000	0.030000	0.030000	100.00	0.030000

13

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorotoluene oil	Caswell #215B	Cancer-rat NOEL= 2,0000 mg/kg LEL= 120.00 ppm	Incr urinary bilirubin levels & kidney vacuolated epithelium.	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000		No data gaps.		HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94			
CAS No. 1897-45-6	A.I. CODE: 081901	LEL= 4,0000 mg/kg CFR No. 180.275	Evidence of carcinogenicity in rats & mice (kidney).	Q*: 0.00766				WHO reviewed 1992 RfD/PR reviewed 05/18/95			
CAS No. 1897-45-6	A.I. CODE: 081901	ONCO: B2 (HCPRC)	ONCO: B2 (HCPRC)					On IRIS.			

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**				ARC	%RFD
U.S. POPULATION - 48 STATES	0.012704	0.013869	69.342795	5.822585	0.006474	32.37215	
U.S. POPULATION - SPRING SEASON	0.012392	0.013480	67.400815	5.444595	0.006352	31.75763	
U.S. POPULATION - SUMMER SEASON	0.014419	0.015566	77.830240	5.737585	0.007424	37.11869	
U.S. POPULATION - FALL SEASON	0.012093	0.013309	66.543960	6.079840	0.005993	29.96452	
U.S. POPULATION - WINTER SEASON	0.011770	0.012977	64.883545	6.032680	0.005978	29.89218	
NORTHEAST REGION	0.012872	0.014081	70.403290	6.042590	0.006715	33.57261	
NORTH CENTRAL REGION	0.012763	0.013978	69.892095	6.077690	0.006363	31.81742	
SOUTHERN REGION	0.011724	0.012738	63.689790	5.071500	0.005867	29.33683	
WESTERN REGION	0.013887	0.015178	75.892210	6.456205	0.007153	35.76437	
HISPANICS	0.012694	0.014167	70.833840	7.367865	0.006910	34.54892	
NON-HISPANIC WHITES	0.013041	0.014203	71.015320	5.812255	0.006539	32.69494	
NON-HISPANIC BLACKS	0.010061	0.011079	55.392860	5.088595	0.005335	26.67583	
NON-HISPANIC OTHERS	0.014255	0.015545	77.725290	6.449115	0.008293	41.466608	
NURSING INFANTS (< 1 YEAR OLD)	0.006373	0.007819	39.096930	7.231140	0.003574	17.87227	
NON-NURSING INFANTS (< 1 YEAR OLD)	0.015758	0.022376	111.880815	33.088615	0.012059	60.29678	
FEMALES (13+ YEARS, PREGNANT)	0.010326	0.011154	55.768240	4.140145	0.005051	25.25606	
FEMALES 13+ YEARS, NURSING	0.012049	0.013114	65.572250	5.327510	0.006197	30.98693	
CHILDREN (1-6 YEARS OLD)	0.022501	0.025800	129.002300	16.494940	0.011998	59.99013	
CHILDREN (7-12 YEARS OLD)	0.018059	0.020099	100.497420	10.204180	0.009017	45.08314	
MALES (13-19 YEARS OLD)	0.012360	0.013647	68.235395	6.434835	0.006147	30.73487	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.011161	0.012140	60.700870	4.896240	0.005670	28.34784	
MALES (20 YEARS AND OLDER)	0.010281	0.010943	54.712330	3.307830	0.005066	25.32775	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)	0.010670	0.011251	56.255965	2.904465	0.005340	26.70005	

*Current TMRC does not include new or pending tolerances.

**New TMRC includes new, pending, and published tolerances.

14

TABLE 3

TOLERANCE ASSESSMENT SUMMARY FOR Chlorothalonil
USING ANTICIPATED RESIDUES
CASWELL #215B

DATE: 09/22/97

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)			
RESULT IN AN ARC OF:	0.005245	MG/KG/DAY	
THE EXISTING ARC IS EQUIVALENT TO:	26.227	% OF THE ADI.	
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)			
RESULT IN AN ARC OF:	0.000066	MG/KG/DAY	
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.330	% OF THE ADI.	
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)			
ARE APPROVED THE RESULTANT ARC WILL BE:	0.005311	MG/KG/DAY	
THE NEW ARC WILL OCCUPY	26.556	% OF THE ADI.	
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE			
CURRENT NEW PETITION HAVE AN ARC OF:	0.001163	MG/KG/DAY	
THIS ARC WILL OCCUPY	5.816	% OF THE ADI.	
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE			
CURRENT NEW PETITION) ARE GRANTED			
THE RESULTANT ARC WILL BE:	0.006474	MG/KG/DAY	
THE TOTAL ARC WILL OCCUPY	32.372	% OF THE ADI.	

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)			
RESULT IN AN ARC OF:	0.008656	MG/KG/DAY	
THE EXISTING ARC IS EQUIVALENT TO:	43.282	% OF THE ADI.	
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)			
RESULT IN AN ARC OF:	0.000044	MG/KG/DAY	
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.219	% OF THE ADI.	
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)			
ARE APPROVED THE RESULTANT ARC WILL BE:	0.008700	MG/KG/DAY	
THE NEW ARC WILL OCCUPY	43.501	% OF THE ADI.	
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE			
CURRENT NEW PETITION HAVE AN ARC OF:	0.003298	MG/KG/DAY	
THIS ARC WILL OCCUPY	16.489	% OF THE ADI.	
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE			
CURRENT NEW PETITION) ARE GRANTED			
THE RESULTANT ARC WILL BE:	0.011998	MG/KG/DAY	
THE TOTAL ARC WILL OCCUPY	59.990	% OF THE ADI.	

15

HCB

TABLE 4

DATE: 09/22/97

PAGE: 1

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 215B

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Food Code	Food	Food Form	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN' (ppm)			
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS 21 COOKED-NFS	0E3889	P 1.000000	1.000000	UF ->100	No data gaps.		HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94		
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	0E3889	P 1.000000	1.000000	OPP Rfd: 0.020000					
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	0E3889	P 1.000000	1.000000	EPA Rfd: 0.020000					
01009AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2939	P 5.000000	0.412500	MONITORING	100.00				
01010AA	CRANBERRIES	21 COOKED-NFS	2E2939	P 5.000000	0.412500	MONITORING	100.00				
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	0.412500	MONITORING	100.00				
01010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2939	P 5.000000	0.412500	MONITORING	100.00				
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2939	P 5.000000	0.412500	MONITORING	100.00				
03001AA	ALMONDS	10 RAW-FRESH OR NFS	5E04558	N 0.050000	0.050000	MONITORING	100.00				
03001AA	ALMONDS	21 COOKED-NFS	5E04558	N 0.050000	0.050000	MONITORING	100.00				
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	5E04558	N 0.050000	0.050000	MONITORING	100.00				
03005AA	FILBERTS	10 RAW-FRESH OR NFS	2E4113	P 0.100000	0.100000	MONITORING	100.00				
03005AA	FILBERTS	21 COOKED-NFS	2E4113	P 0.100000	0.100000	MONITORING	100.00				
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	2E4113	P 0.100000	0.100000	MONITORING	100.00				
03008AA	PECANS	10 RAW-FRESH OR NFS	7E3471	A 0.020000	0.020000	MONITORING	100.00				
03008AA	PECANS	21 COOKED-NFS	7E3471	A 0.020000	0.020000	MONITORING	100.00				
03008AA	PECANS	22 COOKED-FRESH-BAKED	7E3471	A 0.020000	0.020000	MONITORING	100.00				
03008AA	PECANS	23 COOKED-FRESH-BOILED	7E3471	A 0.020000	0.020000	MONITORING	100.00				
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	7E3471	A 0.020000	0.020000	MONITORING	100.00				
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	6E4672	N 0.200000	0.200000	MONITORING	100.00				
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.007800	MONITORING	100.00				
05001AA	APRICOTS-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.007800	MONITORING	100.00				
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.007800	MONITORING	100.00				
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.007800	MONITORING	100.00				
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	3F1382	P 0.500000	0.007800	MONITORING	100.00				
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.002000	MONITORING	100.00				
05002AA	CHERRIES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.002000	MONITORING	100.00				
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.002000	MONITORING	100.00				
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	3F1382	P 0.500000	0.002000	MONITORING	100.00				
05002AA	CHERRIES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	3F1382	P 0.500000	0.002000	MONITORING + PR	100.00				
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	3F1382	P 0.500000	0.002000	MONITORING + PR	100.00				
05002JA	CHERRIES-JUICE	21 COOKED-NFS	3F1382	P 0.500000	0.002000	MONITORING + PR	100.00				
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.001750	MONITORING	100.00				
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.001800	MONITORING	100.00				
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1382	P 0.500000	0.001800	MONITORING + PR	100.00				
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1382	P 0.500000	0.001800	MONITORING + PR	100.00				
05004AA	PEACHES-FRESH	51 COOKED-CANNED	3F1382	P 0.500000	0.001800	MONITORING + PR	100.00				
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1382	P 0.500000	0.001800	MONITORING + PR	100.00				
05004DA	PEACHES-DRIED	21 COOKED-NFS	3F1382	P 0.500000	0.001800	MONITORING + PR	100.00				

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Food Code	Food	Food Form	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN' (ppm)			
Cashell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPBC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	AD1 OPP Rfd: 0.020000 EPA Rfd: 0.020000 Q*: 0.00766	1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	UF ->100 OPP Rfd: 0.020000 EPA Rfd: 0.020000	No data gaps.		HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

16.

ANTICIPATED RESIDUE INFORMATION FOR CASHMEL NUMBER 215B

DATE: 09/22/97

PAGE: 2

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalomid Cashwell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/kg ONCO: B2 (ICPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOXICITY (ppm)	ANTICIPATED RESIDUE (ppm)	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000500 MONITORING	100.00	0.000500
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.000500 MONITORING + PR	100.00	0.000500
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000500 MONITORING + PR	100.00	0.000500
05005DA	PLUMS-PRUNES	21 COOKED-NFS	2F2602	P 0.200000	0.000500 MONITORING + PR	100.00	0.000500
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	2F2602	P 0.200000	0.000500 MONITORING + PR	100.00	0.000500
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	2F2602	P 0.200000	0.000500 MONITORING + PR	100.00	0.000500
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	8F2067	P 0.050000	0.000500 MONITORING	100.00	0.000500
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
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	8F2067	P 0.050000	0.000500 MONITORING	100.00	0.000500
06002AB	BANANAS-DRIED	10 RAW-FRESH OR NFS	8F2067	P 0.050000	0.000500 MONITORING	100.00	0.000500
06002DA	BANANAS-DRIED	21 COOKED-NFS	8F2067	P 0.050000	0.000500 MONITORING	100.00	0.000500
06007AA	MANGOES	10 RAW-FRESH OR NFS	1E4018	N 1.000000	1.000000	1.000000	0.000500
06007AA	MANGOES	21 COOKED-NFS	1E4018	N 1.000000	1.000000	1.000000	0.000500
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6E1761	P 15.00000	0.005000 MONITORING	100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6E1761	P 15.00000	0.005000 MONITORING	100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6E1761	P 15.00000	0.005000 MONITORING	100.00	0.005000
06010DA	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	6E1761	P 15.00000	0.005000 MONITORING	100.00	0.005000
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	5E1569	P 3.000000	3.000000	3.000000	0.005000
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
07002AA	COCONUT BUTTER	21 COOKED-NFS	2E2744	P 0.050000	0.005000 PROCESSING	100.00	0.005000
07001FA	CHOCOLATE	10 RAW-FRESH OR NFS	2E2744	P 0.050000	0.005000 PROCESSING	100.00	0.005000
07001SA	CHOCOLATE	21 COOKED-NFS	2E2744	P 0.050000	0.005000 PROCESSING	100.00	0.005000
07001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	2E2744	P 0.200000	0.020000 PROCESSING	100.00	0.020000
07002AA	COFFEE	21 COOKED-NFS	6F4676	N 5.000000	5.000000	5.000000	0.000000
08048DA	PAPAIKA	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	0.019100 MONITORING	100.00	0.019100
10002AA	CANTALOUPES-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	0.019100 MONITORING	100.00	0.019100
10002AB	CANTALOUPES-PULP	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.019100 MONITORING	100.00	0.019100
10002AB	CANTALOUPES-PULP	21 COOKED-NFS	1F1024	P 5.000000	0.019100 From honeydew	100.00	5.000000
10003AA	CASABAS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 From honeydew	100.00	5.000000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	0.003300 MONITORING	100.00	0.003300
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	1F1024	P 5.000000	5.000000 From honeydew	100.00	5.000000
10007AA	PERSIAN MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	0.022800 MONITORING	100.00	0.022800
10008AA	WATERMELON	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.022800 MONITORING	100.00	0.022800
10008AA	WATERMELON	21 COOKED-NFS	1F1024	P 5.000000	0.006200 MONITORING	100.00	0.006200
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	1F1024	P 5.000000			

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 09/22/97

PAGE: 3

CHEMICAL	STUDY TYPE	EFFECTS		REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
		ADI	UF -->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000		No data gaps.	
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2,0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPAC)	Incr urinary bilirubin Levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	q*: 0.00766			HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE % CROP TREATED
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS	1F1024	P 5.000000	0.006200	MONITORING + PR 100.00
10010AA	CUCUMBERS	21 COOKED-NFS	1F1024	P 5.000000	0.006200	MONITORING 100.00
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	0.006500	MONITORING 100.00
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	1F1024	P 5.000000	0.006500	MONITORING 100.00
10011AA	PUMPKIN	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.005800	MONITORING 100.00
10013AA	SQUASH-SUMMER	21 COOKED-NFS	1F1024	P 5.000000	0.005800	MONITORING 100.00
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.005800	MONITORING + PR 100.00
10014AA	SQUASH-WINTER	21 COOKED-NFS	1F1024	P 5.000000	0.005800	MONITORING + PR 100.00
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.005800	MONITORING + PR 100.00
10014AA	SQUASH-WINTER	21 COOKED-NFS	1F1024	P 5.000000	0.005800	From honeydew 100.00
10017AA	BITTER MELON	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000	From honeydew 100.00
10020AA	TOUGLOUARD	00 NOT SPECIFIED (NO CONSUMPTION)	1F1024	P 5.000000	5.000000	From honeydew 100.00
11003AB	CHILLI PEPPERS	10 RAW-FRESH OR NFS	6F4676	N 5.000000	5.000000	100.00
11003AD	PEPPERS-OTHER	21 COOKED-NFS	6F4676	N 5.000000	5.000000	100.00
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	6F4676	N 5.000000	5.000000	100.00
11004AA	PIMENTOS	10 RAW-FRESH OR NFS	6F4676	N 5.000000	5.000000	100.00
11004AA	PIMENTOS	21 COOKED-NFS	6F4676	N 5.000000	5.000000	100.00
11004AA	PIMENTOS	31 COOKED-FRESH OR CANNED	6F4676	N 5.000000	5.000000	100.00
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.071600	MONITORING 100.00
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	1F1024	P 5.000000	0.071600	MONITORING 100.00
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.071600	MONITORING 100.00
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005JA	TOMATOES-JUICE	21 COOKED-NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005RA	TOMATOES-PUREE	21 COOKED-NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED-BAKED	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005TA	TOMATOES-PASTE	21 COOKED-NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
11005UA	TOMATOES-PASTUP	21 COOKED-NFS	1F1024	P 5.000000	0.071600	MONITORING + PR 100.00
13002AA	CELERI	10 RAW-FRESH OR NFS	7F0599	P 15.00000	0.087400	MONITORING 100.00
13002AA	CELERI	21 COOKED-NFS	7F0599	P 15.00000	0.087400	MONITORING 100.00
13005AA	BROCCOLI	21 COOKED-NFS	7F0599	P 5.000000	0.001500	MONITORING 100.00
13005AA	BROCCOLI	31 COOKED-FRESH OR FROZEN-BOILED	7F0599	P 5.000000	0.001500	MONITORING 100.00
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	7F0599	P 5.000000	0.013500	MONITORING 100.00
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	7F0599	P 5.000000	0.013500	MONITORING 100.00

ANTICIPATED RESIDUE INFORMATION FOR CASHWELL NUMBER 215B

DATE: 09/22/97

PAGE: 4

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonal Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/kg ONCO: B2 (ICPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	AD1 UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 Rfb/PR reviewed 01/27/94 WHO reviewed 1992 Rfb/PR reviewed 05/18/95 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOXICITY (ppm)	ANTICIPATED RESIDUE (ppm)	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13007AA	CABBAGE	10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F0599	P 5.000000 7F0599	0.013700 0.013700	100.00 100.00	0.013700 0.013700
13007AA	CABBAGE	21 COOKED-NFS	7F0599	P 5.000000	0.013700	100.00	0.013700
13007AA	CABBAGE	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.011500	100.00	0.011500
13008AA	CAULIFLOWER	21 COOKED-NFS	7F0599	P 5.000000	0.011500	100.00	0.011500
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.011500	100.00	0.011500
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	7F0599	P 5.000000	0.011500	100.00	0.011500
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	7F0599	P 15.000000	15.000000	100.00	15.000000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	7E1887	P 1.000000	0.003600	100.00	0.003600
14003AA	CARROTS	10 RAW-FRESH OR NFS	7E1887	P 1.000000	0.003600	100.00	0.003600
14003AA	CARROTS	21 COOKED-NFS	7E1887	P 1.000000	0.003600	100.00	0.003600
14003AA	CARROTS	23 COOKED-FRESH-BOILED	7E1887	P 1.000000	0.003600	100.00	0.003600
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	7E1887	P 1.000000	0.003600	100.00	0.003600
14003AA	CARROTS	51 COOKED-CANNED	7E1887	P 1.000000	0.003600	100.00	0.003600
14007AA	GARLIC	10 RAW-FRESH OR NFS	4E1502	P 0.500000	0.000500	100.00	0.000500
14007AA	GARLIC	21 COOKED-NFS	4E1502	P 0.500000	0.000500	100.00	0.000500
14010AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	4E1502	P 5.000000	0.026200	100.00	0.026200
14010AA	LEAKS	31 COOKED-FRESH OR NFS	4E1502	P 0.500000	0.026200	100.00	0.026200
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	4E1502	P 0.500000	0.026200	100.00	0.026200
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	4E1502	P 0.500000	0.026200	100.00	0.026200
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	4E1502	P 0.500000	0.026200	100.00	0.026200
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	4E1502	P 0.500000	0.026200	100.00	0.026200
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRYED	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AA	POTATO(WH)-WHOLE	23 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AC	POTATO(WH)-UNSPE	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	9F0743	P 0.100000	0.003000	100.00	0.003000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BAKED	4E1502	P 5.000000	0.003300	100.00	0.003300
14013AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9F0743	P 0.100000	0.005200	100.00	0.005200
14021AA	PARSNIPS	21 COOKED-NFS	7E1887	P 1.000000	0.008700	100.00	0.008700
15001AA	BEANS-DRY-GRT	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.008700	100.00	0.008700
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	8E2065	P 0.100000	0.008700	100.00	0.008700
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	8E2065	P 0.100000	0.008700	100.00	0.008700
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	8E2065	P 0.100000	0.008700	100.00	0.008700

19

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalanol Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC) OR*: 0.00766	Incr urinary bilirubin Levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP Rfd= 0.020000 EPA Rfd= 0.020000 OR*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	1F1024	P 5.000000	0.013300	MONITORING + PR	100.00	0.013300
15005AA	CORN-SHEET	10 RAW-FRESH OR NFS	7F0599	P 1.000000	0.000200	MONITORING	100.00	0.000200
15005AA	CORN-SHEET	21 COOKED-NFS	7F0599	P 1.000000	0.000200	MONITORING	100.00	0.000200
15005AA	CORN-SHEET	31 COOKED-FRESH OR CANNED	7F0599	P 1.000000	0.000200	MONITORING	100.00	0.000200
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	1F1024	P 0.300000	0.004500	MONITORING	100.00	0.004500
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	1F1024	P 0.300000	0.004500	MONITORING	100.00	0.004500
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15013AA	MUNG BEANS	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15032AA	BEANS-DRY	21 COOKED-NFS	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	8E2065	P 0.100000	0.008700	MONITORING	100.00	0.008700
16002AA	ASPARAGUS	21 COOKED-NFS	2E04042	N 0.100000	0.100000	MONITORING	100.00	0.100000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E04042	A 0.100000	0.100000	MONITORING	100.00	0.100000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	21 COOKED-NFS	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	6E3410	P 1.000000	1.000000	FIELD TRIALS	100.00	1.000000
16004AA	ONIONS-GREEN	53 COOKED-CANNED-BOILED	4E1502	P 5.000000	0.026200	MONITORING	100.00	0.026200
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	4E1502	P 5.000000	0.026200	MONITORING	100.00	0.026200
16004AA	ONIONS-GREEN	21 COOKED-NFS	4E1502	P 5.000000	0.026200	MONITORING	100.00	0.026200
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6F1799	P 0.200000	0.000050	MONITORING + PR	100.00	0.000050
27007AA	PEANUTS-OIL	18 PROCESSED OIL	1F1024	P 0.022250	0.000050	MONITORING + PR	100.00	0.000050
27010AA	SOYBEANS-OIL	18 PROCESSED OIL	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	21 COOKED-NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023VA	SOY-FL-FAT	21 COOKED-NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023VA	SOY-FL-FAT	22 COOKED-FRESH-BAKED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050

20

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 09/22/97

PAGE: 6

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.1. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 4.0000 mg/kg ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI: UF -->100 OPP RfD: 0.020000 EPA RfD: 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOXICOLOGY TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
28022WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL,DEFAT	10 RAW FRESH OR NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28023WC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	6F1799	P 0.200000	0.000050	MONITORING	100.00	0.000050
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000		100.00	2.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000		100.00	2.000000
28081AA	SPERMANT	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000		100.00	2.000000
28081OA	SPERMANT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	1E2473	P 2.000000	2.000000		100.00	2.000000
500000B	MILK-NON-FAT SOL	10 RAW FRESH OR NFS	6F4611	A 0.100000	0.003400		100.00	0.003400
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	6F4611	A 0.100000	0.003400		100.00	0.003400
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	6F4611	A 0.100000	0.004300		100.00	0.004300
500000A	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.003400		100.00	0.003400
500000A	MILK-FAT SOLIDS	21 COOKED-NFS	6F4611	A 0.100000	0.003400		100.00	0.003400
500000A	MILK-FAT SOLIDS	51 COOKED-CANNED	6F4611	A 0.100000	0.003400		100.00	0.003400
500005A	MILK SUG (LACT)	21 COOKED-NFS	6F4611	A 0.100000	0.003400		100.00	0.003400
500005A	MILK SUG (LACT)	51 COOKED-CANNED	6F4611	A 0.100000	0.003400		100.00	0.003400
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.016000		100.00	0.016000
53001BA	BEEF-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	6F4611	A 0.100000	0.016000		100.00	0.016000
53001DA	BEEF-DRIED	21 COOKED-NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.230000		100.00	0.230000
53001FA	BEEF-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.230000		100.00	0.230000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	6F4611	A 0.100000	0.230000		100.00	0.230000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.230000		100.00	0.230000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	6F4611	A 0.100000	0.230000		100.00	0.230000
53001FA	BEEF-KIDNEY	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.016000		100.00	0.016000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.016000		100.00	0.016000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	6F4611	A 0.100000	0.016000		100.00	0.016000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53001MA	BEEF-LEAN	21 COOKED-NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	6F4611	A 0.100000	0.024800		100.00	0.024800
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.024800		100.00	0.024800
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	6F4611	A 0.100000	0.016000		100.00	0.016000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.016000		100.00	0.016000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.016000		100.00	0.016000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 09/22/97 PAGE: 7

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	Cancer-rat NOEL= 2,0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPAC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.330000		100.00	0.330000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.330000		100.00	0.330000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.016000		100.00	0.016000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.016000		100.00	0.016000
53002HA	GOAT-LEAN	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.024800		100.00	0.024800
53002HA	GOAT-LEAN	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.024800		100.00	0.024800
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.330000		100.00	0.330000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53005FA	SHEEP-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.330000		100.00	0.330000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.016000		100.00	0.016000
53005MA	SHEEP-LEAN	21 COOKED-NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006FA	PORK-MEAT BYP	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53006FA	PORK-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.016000		100.00	0.016000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.033000		100.00	0.033000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.033000		100.00	0.033000
53006KA	PORK-KIDNEY	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53006LA	PORK-LIVER	21 COOKED-NFS	6F4611	A 0.100000	0.330000		100.00	0.330000
53006LA	PORK-LIVER	25 COOKED-FRESH-BOILED	6F4611	A 0.100000	0.016000		100.00	0.016000
53006FA	PORK-FAT	21 COOKED-NFS	6F4611	A 0.100000	0.330000		100.00	0.330000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006KA	PORK-KIDNEY	21 COOKED-NFS	6F4611	A 0.100000	0.016000		100.00	0.016000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.016000		100.00	0.016000
53006LA	PORK-LIVER	21 COOKED-NFS	6F4611	A 0.100000	0.024800		100.00	0.024800
53006HA	PORK-LEAN	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006HA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.024800		100.00	0.024800
53006HA	TURKEY-BYP	21 COOKED-NFS	6F4611	A 0.100000	0.000074		100.00	0.000074
55008EA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4611	A 0.100000	0.001460		100.00	0.001460
55008HA	TURKEY ORGAN	21 COOKED-NFS	6F4611	A 0.100000	0.001460		100.00	0.001460
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.001460		100.00	0.001460
55008HA	TURKEY W/O SKIN	21 COOKED-NFS	6F4611	A 0.100000	0.000074		100.00	0.000074
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F4611	A 0.100000	0.001460		100.00	0.001460
55008HA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F4611	A 0.100000	0.000440		100.00	0.000440
55008HA	TURKEY+SKIN	21 COOKED-NFS	6F4611	A 0.100000	0.000440		100.00	0.000440
55008MC	TURKEY-UNSPEC	21 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.001460		100.00	0.001460
55013BA	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F4611	A 0.100000	0.001460		100.00	0.001460
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	6F4611	A 0.100000	0.001460		100.00	0.001460

22

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 215B

DATE: 09/22/97

PAGE: 8

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothaloniil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 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)
55013MA	POULTRY, OTHER	21 COOKED-NFS	A 0.100000	A 0.100000	0.001460			0.001460
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	A 0.100000	A 0.100000	0.000540			0.000540
55014AA	EGGS-WHOLE	21 COOKED-NFS	A 0.100000	A 0.100000	0.000540			0.000540
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	A 0.100000	A 0.100000	0.005400			0.005400
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	A 0.100000	A 0.100000	0.005400			0.005400
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	A 0.100000	A 0.100000	0.005400			0.005400
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	A 0.100000	A 0.100000	0.000001			0.000001
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	A 0.100000	A 0.100000	0.000001			0.000001
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	A 0.100000	A 0.100000	0.000001			0.000001
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	A 0.100000	A 0.100000	0.000001			0.000001
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	A 0.100000	A 0.100000	0.100000			0.100000
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	A 0.100000	A 0.100000	0.000146			0.000146
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	A 0.100000	A 0.100000	0.000146			0.000146
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	A 0.100000	A 0.100000	0.000146			0.000146
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	A 0.100000	A 0.100000	0.000146			0.000146
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	A 0.100000	A 0.100000	0.000146			0.000146
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	A 0.100000	A 0.100000	0.000146			0.000146
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	A 0.100000	A 0.100000	0.000146			0.000146
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	A 0.100000	A 0.100000	0.100000			0.100000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	A 0.100000	A 0.100000	0.000074			0.000074
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	A 0.100000	A 0.100000	0.000074			0.000074
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	A 0.100000	A 0.100000	0.000074			0.000074
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	A 0.100000	A 0.100000	0.000074			0.000074
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	A 0.100000	A 0.100000	0.000074			0.000074
55015MB	CHICKEN+SKIN	21 COOKED-NFS	A 0.100000	A 0.100000	0.000440			0.000440
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	A 0.100000	A 0.100000	0.000440			0.000440

23

TABLE 5

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

PAGE: 1 DATE: 09/22/97

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorothalonil Caswell #215B CAS No. 1897-55-6 A.I. CODE: 081901 CFR No. 180.275		Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm LEL= 4.0000 mg/kg LEL= 120.00 ppm		Incr urinary bilirubin Levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).		ADI UF ->100 OPP RfD= 0.020000 EPA RfD= 0.020000		No data gaps.		HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.	

POPULATION SUBGROUP		TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC**		DIFFERENCE AS PERCENT OF RFD		EFFECT OF ANTICIPATED RESIDUES		%RFD	
CURRENT TMRC*		NEW TMRC**		NEW TMRC AS PERCENT OF RFD		ARC					
U.S. POPULATION - 48 STATES		0.012704	0.013977	69.885595	6.365385	0.000471		2.35591			
U.S. POPULATION - SPRING SEASON		0.012392	0.013590	67.949020	5.989800	0.000449		2.09618			
U.S. POPULATION - SUMMER SEASON		0.014419	0.015673	78.363910	6.271255	0.000459		2.29391			
U.S. POPULATION - FALL SEASON		0.012093	0.013418	67.090685	6.626565	0.000436		2.17832			
U.S. POPULATION - WINTER SEASON		0.011770	0.013085	65.426060	6.575195	0.000423		2.11375			
NORTHEAST REGION		0.012872	0.014187	70.936630	6.575930	0.000433		2.16365			
NORTH CENTRAL REGION		0.012763	0.014072	70.360500	6.546095	0.000429		2.14591			
SOUTHERN REGION		0.011724	0.012858	64.289510	5.671220	0.000386		1.92812			
WESTERN REGION		0.013887	0.015292	76.458030	7.022025	0.000527		2.63641			
HISPANICS		0.012694	0.014320	71.599985	8.131010	0.000538		2.68758			
NON-HISPANIC WHITES		0.013041	0.014302	71.508965	6.305900	0.000435		2.17645			
NON-HISPANIC BLACKS		0.010061	0.011226	56.127640	5.823375	0.000372		1.85897			
NON-HISPANIC OTHERS		0.014255	0.015691	78.456780	7.180605	0.000483		2.41341			
NURSING INFANTS (< 1 YEAR OLD)		0.006373	0.007901	39.503730	7.637940	0.000183		0.91512			
NON-NURSING INFANTS (< 1 YEAR OLD)		0.015758	0.022542	112.709500	33.917300	0.000567		2.83710			
FEMALES (13+ YEARS, PREGNANT)		0.010326	0.011226	56.131590	4.503495	0.000306		1.52857			
FEMALES (13+ YEARS, NURSING)		0.012049	0.013209	66.047430	5.802490	0.000333		1.66651			
CHILDREN (1-6 YEARS OLD)		0.022501	0.026033	130.166795	17.659435	0.000804		4.02187			
CHILDREN (7-12 YEARS OLD)		0.018059	0.020237	101.182795	10.889555	0.000614		3.07091			
MALES (13-19 YEARS OLD)		0.012360	0.013751	68.755465	6.954905	0.000443		2.21305			
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)		0.011161	0.012227	61.133315	5.328685	0.000371		1.85435			
MALES (20 YEARS AND OLDER)		0.010281	0.011036	55.180155	3.775455	0.000381		1.90690			
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)		0.010670	0.011335	56.876005	3.324505	0.000338		1.68795			

*Current TMRC does not include new or pending tolerances.

**New TMRC includes new, Pending, and published tolerances.

24

TABLE 5

TOLERANCE ASSESSMENT SUMMARY FOR Chlorothalonil
USING ANTICIPATED RESIDUES
CASWELL #2158

DATE: 09/22/97

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000134	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.671	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000066	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.329	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY) ARE APPROVED THE RESULTANT ARC WILL BE: 0.000200 MG/KG/DAY		
THE NEW ARC WILL OCCUPY	1.000	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE CURRENT NEW PETITION HAVE AN ARC OF: 0.000271 MG/KG/DAY		
THIS ARC WILL OCCUPY	1.356	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE CURRENT NEW PETITION) ARE GRANTED THE RESULTANT ARC WILL BE: 0.000471 MG/KG/DAY		
THE TOTAL ARC WILL OCCUPY	2.356	% OF THE ADI.

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000216	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	1.082	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000044	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.218	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY) ARE APPROVED THE RESULTANT ARC WILL BE: 0.000260 MG/KG/DAY		
THE NEW ARC WILL OCCUPY	1.301	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE CURRENT NEW PETITION HAVE AN ARC OF: 0.000544 MG/KG/DAY		
THIS ARC WILL OCCUPY	2.721	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE CURRENT NEW PETITION) ARE GRANTED THE RESULTANT ARC WILL BE: 0.000804 MG/KG/DAY		
THE TOTAL ARC WILL OCCUPY	4.022	% OF THE ADI.

25-

TABLE 8

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES ADI: UF: >100 OPP RfD= 0.020000 EPA RfD= 0.020000	DATA GAPS/COMMENTS	STATUS
Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (NCPRC)	Incr urinary bilirubin Levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	I-2 q*: -0.00766		No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 on IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME / FOOD FORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC RISK
03011AA	PISTACHIO NUTS 10 RAW-FRESH OR NFS 21 COOKED-UNSPECIFIED	0.200	N	0.000000	0.000	0.0000000000	0.20000	0.000051
06002AA	BANANAS-UNSPECIFIED 22 COOKED-FRESH-BAKED	0.050	P	0.000165	0.001	0.0000016830	0.00050	0.000002
06002AB	BANANAS- FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.011202	0.056	0.00001142604	0.00050	0.000059
06002DA	31 COOKED-FRESH OR CANNED BANANAS-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000088	0.000	0.0000008976	0.00050	0.000003
06007AA	MANGOES 10 RAW-FRESH OR NFS 21 COOKED-NFS	1.000	N	0.000000	0.000	0.0000000000	0.00050	0.000010
06010AA	PAPAYAS-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	15.000	P	0.000015	0.000	0.0000001530	0.00500	0.000000
06010AB	PAPAYAS-PULP 10 RAW-FRESH OR NFS 51 COOKED-CANNED	15.000	P	0.020084	0.100	0.00002048568	0.00500	0.000050
06010DA	PAPAYAS-DRIED 10 RAW-FRESH OR NFS	15.000	P	0.025915	0.130	0.00002643330	0.00500	0.000000
06010JA	PAPAYAS-JUICE 10 RAW-FRESH OR NFS PASSION FRUIT (GRANADILLA)	15.000	P	0.068706	0.344	0.0000708012	0.00500	0.000006
06014AA	00 NOT SPECIFIED (NO CONSUMPTION)	3.000	P	0.000003	0.000	0.0000000306	0.00500	0.000000
06016AA	PLANTAINS 21 COOKED-NFS 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.050	P	0.000082	0.000	0.0000008364	0.00050	0.000000
07001FA	COCOA BUTTER CHOCOLATE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000268	0.001	0.0000027336	0.00500	0.000027
07002AA	22 COOKED-FRESH-BAKED COFFEE 21 COOKED-NFS	0.200	P	0.009263	0.046	0.00000944826	0.02000	0.000926
13016AA	FENNEL 00 NOT SPECIFIED (NO CONSUMPTION)	15.000	P	0.003315	0.017	0.00000338130	15.00040	0.003315
16002AA	ASPARAGUS 21 COOKED-NFS	0.100	N	0.001311	0.007	0.00000135722	0.10000	0.001168

JL

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 2

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorothalonil		Cancer-rat		Incr urinary bilirubin levels & kidney vacuolated epithelium.		ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000		No data gaps.		HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 on IRIS.	
Casshell #215B		NOEL= 2.0000 mg/kg		120.00 ppm		0PP RfD= 0.020000 EPA RfD= 0.020000					
CAS No. 1897-45-6		LEL= 4.0000 mg/kg		120.00 ppm							
A.I. CODE: 081901		ONCO: B2 (HCPRC)		Evidence of carcinogenicity in rats & mice (kidney).		q#: 0.00766					
CFR No. 180.275											

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	TMRC	ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC	ONCO RISK
16003AA	23 COOKED - FRESH - BOILED MUSHROOMS	1.000	P	0.021388	0.107	0.00002181576	0.10000	0.000143	0.001	0.00000014586	
	10 RAW - FRESH OR NFS										
	21 COOKED - NFS										
	31 COOKED - FRESH OR CANNED										
	53 COOKED - CANNED - BOILED										
	CROP GROUP TOTALS FOR UNSPECIFIED:			0.163607	0.818	0.00016687914	0.027907	0.140	0.00002846514		
14003AA	CARROTS	1.000	P	0.173479	0.867	0.00017694858	0.00360	0.000144	0.001	0.00000014688	
	10 RAW - FRESH OR NFS										
	21 COOKED - NFS										
	23 COOKED - FRESH - BOILED										
	31 COOKED - FRESH OR CANNED										
14013AA	POTATOES(WHITE) - WHOLE	0.100	P	0.034006	0.170	0.00003468612	0.00360	0.000145	0.001	0.00000014790	
	10 RAW - FRESH OR NFS										
	21 COOKED - NFS										
	22 COOKED - FRESH - BAKED										
	51 COOKED - CANNED										
14013AB	POTATOES(WHITE) - UNSPECIFIED	0.100	P	0.000008	0.000	0.00000000816	0.00300	0.000137	0.001	0.00000013974	
	22 COOKED - FRESH - BAKED										
	22 COOKED - FRESH - BAKED										
	23 COOKED - FRESH - BOILED										
	25 COOKED - FRESH - FRIED										
14013DA	POTATOES(WHITE) - DRY	0.100	P	0.000845	0.004	0.0000086190	0.00300	0.000216	0.001	0.00000022032	
	10 RAW - FRESH OR NFS										
	31 COOKED - FRESH OR CANNED										
	31 COOKED - FRESH - PEEL ONLY										
14013HA	POTATOES(WHITE) - PEEL ONLY	0.100	P	0.000002	0.000	0.00000000204	0.00300	0.000128	0.001	0.00000013056	
	22 COOKED - FRESH - BAKED										
14021AA	PARSNIPS	1.000	P	0.000697	0.003	0.00000071094	0.00520	0.000004	0.000	0.00000001428	
	21 COOKED - NFS										
	CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:			0.287463	1.437	0.0002932126	0.004026	0.020	0.00000410652		

27

TOLEURANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 3

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Chlorothalonil Cassell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	NOEL= 2.0000 mg/kg LEL= 120.00 ppm. Q*: 0.00766	Cancer-rat Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

.COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ONCO RISK	ANTICIPATED	ARC (UG/KG/DAY)	%RFD	ONCO RISK
							TMRC (PPM)			
14007AA	GARLIC 10 RAW-FRESH OR NFS 21 COOKED-NFS 32 COOKED-FRESH OR CANNED-BAKED	0.500	P	0.000381	0.002	0.00000038862	0.00050	0.000000	0.000	0.0000000000
14010AA	LEeks 31 COOKED-FRESH OR CANNED	5.000	P	0.000194	0.001	0.00000019788	0.00050	0.000000	0.000	0.0000000000
14011AA	ONIONS-DRY-BULB (CIPOLLINI) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.500	P	0.053031	0.265	0.00005409162	0.02620	0.000001	0.000	0.00000000102
14011DA	ONIONS-DEHYDRATED OR DRIED 12 RAW-FRESH-DRIED	0.500	P	0.000036	0.003	0.00000054672	0.02620	0.000486	0.002	0.0000049572
14017AA	SHALLOTS 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000153	0.001	0.00000015606	0.02620	0.001855	0.009	0.00000189210
16004AA	ONIONS-GREEN 10 RAW-FRESH OR NFS 21 COOKED-NFS 25 COOKED-FRESH-FRIED	5.000	P	0.009778	0.049	0.00000997556	0.02620	0.000270	0.001	0.00000027540
CROP GROUP TOTALS FOR BULB VEGETABLES:		0.064073		0.320	0.00006535446		0.023860		0.014	0.00000291720
13002AA	CELERY 10 RAW-FRESH OR NFS 21 COOKED-NFS	15.000	P	0.914416	4.572	0.00093270432	0.08740	0.004178	0.021	0.00000426156
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):		0.914416		4.572	0.00093270432		0.08740	0.001150	0.006	0.00000117500
13005AA	BROCCOLI 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	5.000	P	0.245647	1.228	0.00025055994	0.0150	0.000005	0.000	0.0000000510
13006AA	BRUSSEL SPROUTS 21 COOKED-NFS 23 COOKED-FRESH-BOILED	5.000	P	0.034240	0.171	0.00003492280	0.0150	0.000061	0.000	0.00000005222
13007AA	CABBAGE-GREEN AND RED 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS	5.000	P	0.468201	2.341	0.00047756502	0.0150	0.000008	0.000	0.0000000816
13008AA	CAULIFLOWER 10 RAW-FRESH OR NFS	5.000	P	0.079184	0.396	0.00008076768	0.0150	0.000011	0.000	0.0000001122

28

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 4

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonal	Cancer-rat NOEL= 2,0000 mg/kg	Incr urinary bilirubin	ADI UF >>100	No data gaps.	HED reviewed 03/14/97	
Caswell #215B	120.00 ppm	Levels & kidney vacuolated epithelium.	OPP RfD= 0.020000	EPA verified 04/08/97		
CAS No. 1897-45-6	LEL= 4,0000 mg/kg	Evidence of carcinogenicity in rats & mice (kidney).	EPA RfD= 0.020000	RfD/PR reviewed 01/27/94		
A.I. CODE: 081901	120.00 ppm		Q*: 0.00766	WHO reviewed 1992		
CFR No. 180.275	ONCO: B2 (HCPRC)			RfD/PR reviewed 05/18/95		
				On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES		TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	TMRC %RFD	ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	ARC %RFD	ONCO RISK
FOOD CODE	FOODNAME/FOODFORM								
13010AA	21 COOKED-NFS CABBAGE-CHINESE/CELERY, INC. BOK CHOY 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000 P	0.022816	0.114	0.00002327232	0.01150	0.000171	0.001	0.0000017442
	CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:	0.850088	4.250	0.00086708976	0.001684	0.008	0.0000171768		
15001AA	BEANS-DRY-GREAT NORTHERN 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 P	0.0000000	0.000	0.00000000000	0.00870	0.00000	0.000	0.000000000
15001AB	BEANS-DRY-KIDNEY 21 COOKED-NFS	0.100 P	0.001363	0.007	0.00000139026	0.00870	0.000103	0.001	0.0000010506
	31 COOKED-FRESH OR CANNED					0.00870	0.000016	0.000	0.0000001632
15001AC	BEANS-DRY-LIMA 21 COOKED-NFS	0.100 P	0.000799	0.004	0.00000081498	0.00870	0.000070	0.000	0.0000007140
15001AD	BEANS-DRY-NAVY (PEA) 21 COOKED-NFS	0.100 P	0.003741	0.019	0.00000381582	0.00870	0.000077	0.000	0.0000007854
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.100 P	0.003983	0.020	0.00000406266	0.00870	0.000248	0.001	0.0000025296
	31 COOKED-FRESH OR CANNED					0.00870	0.000056	0.000	0.0000015504
15001AF	BEANS-DRY-PINTO 21 COOKED-NFS	0.100 P	0.003635	0.018	0.00000370770	0.00870	0.000139	0.001	0.0000005712
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS PEANUTS-WHOLE	5.000 P 0.300 P	1.0000250 0.020873	5.001 0.104	0.00102025500 0.00002129046	0.01330	0.002661	0.013	0.00000271422
15006AA	10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED					0.00450	0.000005	0.000	0.0000000510
15013AA	MUNG BEANS (SPROUTS) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100 P	0.000665	0.003	0.00000067830	0.00870	0.000007	0.000	0.0000000714
	BEANS-DRY-BROADBEANS(MATURE SEED) 00 NOT SPECIFIED (NO CONSUMPTION)					0.00870	0.000051	0.000	0.00000005202
15022AA	BEANS-DRY-PIGEON BEANS 21 COOKED-NFS	0.100 P	0.000004	0.000	0.0000000408	0.00870	0.000000	0.000	0.000000000
15023AA	SOYBEANS-SPROUTED SEEDS 00 NOT SPECIFIED (NO CONSUMPTION)	0.200 P	0.000000	0.000	0.0000000000	0.00005	0.000000	0.000	0.000000000
15029AA	BEANS-DRY-HYACINTH (MATURE SEEDS) 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 P	0.000000	0.000	0.0000000000	0.00870	0.000000	0.000	0.000000000
15030AA	BEANS-DRY-BLACKEYE PEAS(COMPTEAS) 21 COOKED-NFS	0.100 P	0.000247	0.001	0.0000025194	0.00870	0.000022	0.000	0.0000002244

25

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 5

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Chlorothalonil Caswell #2158 CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg 120.00 ppm	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADL UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME / FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK
							ARC			
15032AA	BEANS-DRY-GARbanzo(CHICK PEA) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.100	P	0.000053	0.000	0.00000005406	0.00870	0.000003	0.000	0.0000000306
270070A	PEANUTS-OIL 18 PROCESSED OIL	0.002	P	0.001568	0.008	0.00000159936	0.00870	0.000001	0.000	0.0000000102
270100A	SOYBEANS-OIL 18 PROCESSED OIL	0.200	P	0.064431	0.322	0.00006571962	0.00225	0.00012	0.000	0.0000001224
28023AA	SOYBEANSUNSPECIFIED 21 COOKED-NFS	0.200	P	0.000104	0.001	0.000000106008	0.0005	0.00016	0.000	0.0000001632
28023AB	SOYBEANS MATURE SEEDS DRY 10 RAW-FRESH OR NFS 21 COOKED-NFS 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.200	P	0.000180	0.001	0.00000018360	0.0005	0.00000	0.000	0.0000000000
28023WA	SOYBEANS-FLOUR, FULL FAT 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.200	P	0.000584	0.003	0.000000059568	0.0005	0.00000	0.000	0.0000000000
28023WB	SOYBEANS-FLOUR, LOW FAT 21 COOKED-NFS 10 RAW-FRESH OR NFS	0.200	P	0.000190	0.001	0.00000019380	0.0005	0.00000	0.000	0.0000000000
28023WC	SOYBEANS-FLOUR, DEFATTED 21 COOKED-NFS 22 COOKED-FRESH-BAKED 51 COOKED-CANNED 53 COOKED-CANNED-BOILED	0.200	P	0.002492	0.012	0.000000254184	0.0005	0.00000	0.000	0.0000000000
CROP GROUP TOTALS FOR LEGUME VEGETABLES:		1.105162		5.526	0.001127276524		0.004263	0.021	0.00000434826	
11003AB	CHILI PEPPERS 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	N	0.020545	0.103	0.00002095590	5.00000	0.020545	0.103	0.00002095590
11003AD	PEPPERS-OTHER 10 RAW-FRESH OR NFS	5.000	N	0.021797	0.109	0.00002223294	5.00000	0.002949	0.015	0.0000300798
11004AA	PIIMENTOS 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	5.000	N	0.009742	0.049	0.00000993684	5.00000	0.017304	0.087	0.00001765008
11005AA	TOMATOES-WHOLE 10 RAW-FRESH OR NFS	5.000	P	2.466082	12.300	0.002509283364	5.00000	0.003793	0.016	0.00000334866
										0.00001834368

30

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 6

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Chloroethalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 qt: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC (UG/KG/DAY)	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC (UG/KG/DAY)	ONCO RISK
	21 COOKED-NFS 31 COOKED-FRESH OR CANNED	5.000	P	0.413513	2.068	0.00042178326	0.07160	0.013864	0.069	0.00001414128	
11005JA	TOMATOES-JUICE 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000	P	2.808813	14.044	0.002886498926	0.07160	0.00144	0.001	0.00000146388	
11005RA	TOMATOES-PUREE 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000	P	10.000000	10.000	0.0000000	0.07160	0.000004	0.000	0.0000000408	
	31 COOKED-FRESH OR CANNED 32 COOKED-FRESH OR CANNED-BAKED 51 COOKED-CANNED	5.000	P	1.065371	5.329	0.00108718842	0.07160	0.001993	0.010	0.00000203286	
11005TA	TOMATOES-PASTE 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	5.000	P	0.525400	2.627	0.00053590800	0.07160	0.000381	0.002	0.0000038862	
11005UA	TOMATOES-SATSUP 21 COOKED-NFS	5.000	P	0.000000	0.000	0.0000000	0.07160	0.000452	0.002	0.0000046104	
	CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):	7.325763		36.629	0.00747227826		0.109283	0.546	0.00011146866		
10002AA	CANTALOUPES-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000005	0.000	0.00000000510	0.01910	0.00000	0.000	0.00000000000	
10002AB	CANTALOUPES-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000	P	0.222110	1.111	0.00022655220	0.01910	0.00844	0.004	0.0000086088	
10003AA	CASABAS 10 RAW-FRESH OR NFS	5.000	P	0.003852	0.019	0.0000392904	5.00000	0.003851	0.019	0.00000392802	
10004AA	CRENSHAW 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000005	0.000	0.00000000510	5.00000	0.000005	0.000	0.00000000510	
10005AA	HONEYDEW MELONS 10 RAW-FRESH OR NFS	5.000	P	0.091814	0.459	0.00009365028	0.03330	0.00061	0.000	0.0000006222	
10007AA	PERSIAN MELONS 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000005	0.000	0.00000000510	5.00000	0.000005	0.000	0.00000000510	
10008AA	WATERMELON 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000	P	0.382527	1.913	0.00039017754	0.02280	0.01742	0.009	0.00000177684	
10010AA	CUCUMBERS 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS	5.000	P	0.360410	1.802	0.00036761820	0.02280	0.00002	0.000	0.00000000204	
10011AA	PUMPKIN 21 COOKED-NFS	5.000	P	0.022091	0.110	0.00002253282	0.00650	0.000002	0.000	0.00000000204	

3/

TOLEURANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 7

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorothalolin Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg 120.00 ppm LEL= 4.0000 mg/kg 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI: UF -->100 OPP RfD: 0.020000 EPA RfD: 0.020000 q*: 0.00766	No data gaps.		HED reviewed 03/14/97. EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.					

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES		FOOD CODE		FOOD NAME/FOOD FORM		TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)		ANTICIPATED RESIDUE (PPM)		ARC TMRC (UG/KG/DAY)		ARC %RFD		OMCO RISK		
22 COOKED - FRESH -BAKED		10013AA	SQUASH-SUMMER	5.000	P	0.158240		0.791	0.00016140480	0.00650	0.000004	0.000	0.000000040480	0.000	0.000	0.00000004590		
62 COOKED - FRESH OR FROZEN -BAKED		10014AA	SQUASH-WINTER	5.000	P	0.162208		0.811	0.00016545216	0.00580	0.000008	0.000	0.0000000816	0.001	0.000	0.00000017952		
10 RAW - FRESH OR NFS		10017AA	BITTER MELON	5.000	P	0.000116		0.001	0.000000011832	0.00580	0.000000	0.000	0.000000000000	0.001	0.000	0.00000016728		
21 COOKED - NFS		10020AA	TOWEL GOURD	5.000	P	0.000005		0.000	0.00000000510	5.00000	0.000005	0.000	0.00000000510	0.001	0.000	0.00000002448		
00 NOT SPECIFIED (NO CONSUMPTION)			CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITS):			1.403388		7.017	0.00143145576	0.007483	0.037	0.00000763266						
21 COOKED - NFS		05001AA	APRICOTS-FRESH	0.500	P	0.016845		0.084	0.00001718190	0.00780	0.000045	0.000	0.00000004590					
10 RAW - FRESH OR NFS		05001DA	APRICOTS-DRIED	0.500	P	0.001212		0.006	0.00000123624	0.00780	0.000061	0.000	0.00000006222					
21 COOKED - NFS		05002AA	CHERRIES-FRESH	0.500	P	0.016088		0.080	0.00001640976	0.00780	0.000003	0.000	0.00000016116					
31 COOKED - FRESH OR CANNED		05002DA	CHERRIES-DRIED	0.500	P	0.000002		0.000	0.00000000204	0.00200	0.000015	0.000	0.0000001530					
10 RAW - FRESH OR NFS		05002JA	CHERRIES-JUICE	0.500	P	0.002556		0.013	0.00000260712	0.00200	0.000009	0.000	0.0000000918					
21 COOKED - FRESH OR FROZEN -BAKED		05003AA	NECTARINES	0.500	P	0.006483		0.032	0.00000661266	0.00200	0.000016	0.000	0.00000002550					
15 RAW - FRESH OR CANNED		05004AA	PEACHES-FRESH	0.500	P	0.107696		0.538	0.00010984992	0.00175	0.000023	0.000	0.00000002346					
21 COOKED - NFS		05004DA	PEACHES-DRIED	0.500	P	0.000174		0.001	0.00000017748	0.00180	0.000006	0.000	0.0000000612					
31 COOKED - FRESH OR CANNED										0.00180	0.000181	0.001	0.00000018462					
51 COOKED - CANNED										0.00180	0.000018	0.000	0.0000001836					
10 RAW - FRESH OR NFS										0.00180	0.000144	0.001	0.0000001688					
										0.00180	0.000045	0.000	0.00000004590					
										0.00180	0.000000	0.000	0.00000000000					

32

TOLEURANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 8

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalonil	Cancer-rat	Incr urinary bilirubin levels & kidney vacuolated epithelium.	ADI UF -->100	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 on IRIS.	
Cashell #2158	NOEL= 2.0000 mg/kg	OPP RfD= 0.020000				
CAS No. 1897-45-6	120.00 ppm	EPA RfD= 0.020000				
A.I. CODE: 081901	LEL= 4.0000 mg/kg	Q*: 0.0076				
CFR No. 180.275	120.00 ppm					
	ONCO: B2 (HCPRC)					

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME/FOOD FORM	TOLERANCE		TMRC		ANTICIPATED RESIDUE		ARC		ONCO_RISK
		(PPM)	TYPE	(UG/KG/DAY)	%RFD	ONCO RISK	(PPM)	(UG/KG/DAY)	%RFD	
05005AA	21 COOKED-NFS PLUMS(DAMSONS)-FRESH 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.200	P	0.004973	0.025	0.00000507246	0.00180	0.000000	0.000	0.0000000000
05005DA	PLUMS-PRUNES(CRILED) 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.200	P	0.003484	0.017	0.000003553368	0.00050	0.000003	0.000	0.0000000018
05005JA	PLUMS,PRUNE-JUICE 10 RAW-FRESH OR NFS 62 COOKED-FRESH OR FROZEN-BAKED	0.200	P	0.003851	0.019	0.00000392802	0.00050	0.000002	0.000	0.0000000036
<u>CROP GROUP TOTALS FOR STONE FRUITS:</u>		0.163364		0.817		0.00016663128	0.000787	0.004		0.00000080274
01009AA	BLUEBERRIES 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	0.009047	0.045	0.00000922794	1.00000	0.005359	0.027	0.00000546618
01010AA	CRANBERRIES 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	5.000	P	0.075068	0.375	0.00007656936	1.00000	0.001084 0.00000487 0.002117	0.005 0.002 0.011	0.0000110568 0.000049574 0.0000215354
01010JA	CRANBERRIES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	5.000	P	0.093937	0.470	0.00009581574	0.41250	0.000264 0.41250 0.41250	0.001 0.000009 0.030	0.0000026228 0.000000918 0.0000603942
<u>CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:</u>		0.178052		0.890		0.00018161304	0.022991	0.115		0.00002345082
15005AA	CORN,SWEET 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	1.000	P	0.236707	1.184	0.00024144114	0.00020 0.00020 0.00020	0.000000 0.000040 0.000007	0.000 0.000 0.000	0.0000000000 0.0000004080 0.0000000714
<u>CROP GROUP TOTALS FOR CEREAL GRAINS:</u>		0.236707		1.184		0.00024144114	0.000047	0.000		0.00000004794

33

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 9

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Caswell #215B	Cancer-rat NOEL = 2.0000 mg/kg CAS No. 1897-45-6	1ncr urinary bilirubin levels & kidney vacuolated epithelium.	ADJ UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		
A.I. CODE: 081901	LEL= 4.0000 mg/kg CFR No. 180.275	Evidence of carcinogenicity in rats & mice (kidney).	Q*: 0.00766				
ONCO: B2 (HCPRC)	ONCO: B2 (HCPRC)						

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC	%RFD	ONCO RISK	ANTICIPATED RESIDUE	ARC (UG/KG/DAY)	%RFD	ONCO RISK
							(UG/KG/DAY)			
03001AA	ALMONDS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.050	N	0.000000	0.000	0.00000000000	0.05000	0.000065	0.000	0.00000006630
		21 COOKED-NFS	P	0.000040	0.000	0.0000004080	0.05000	0.000047	0.000	0.00000004794
		22 COOKED-FRESH-BAKED					0.05000	0.000028	0.000	0.00000002856
		10 RAW-FRESH OR NFS					0.10000	0.000035	0.000	0.00000003570
		21 COOKED-NFS					0.10000	0.000003	0.000	0.00000003036
		22 COOKED-FRESH-BAKED					0.10000	0.000002	0.000	0.00000000204
03005AA	FILBERTS, HAZELNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.100	P	0.000040	0.000	0.00000000000	0.10000	0.0000035	0.000	0.00000000000
		10 RAW-FRESH OR NFS					0.10000	0.000003	0.000	0.00000000000
		21 COOKED-NFS					0.10000	0.000002	0.000	0.00000000000
		22 COOKED-FRESH-BAKED					0.10000	0.000002	0.000	0.00000000000
		10 RAW-FRESH OR NFS					0.02000	0.000014	0.000	0.00000001428
		21 COOKED-NFS					0.02000	0.000001	0.000	0.00000000102
03008AA	PECANS 10 RAW-FRESH OR NFS 21 COOKED-FRESH-BAKED 22 COOKED-FRESH-BOILED 23 COOKED-FRESH-BOILED 62 COOKED-FRESH OR FROZEN-BAKED	0.020	A	0.000000	0.000	0.00000000000	0.02000	0.000022	0.000	0.00000002244
		10 RAW-FRESH OR NFS					0.02000	0.000022	0.000	0.00000000000
		21 COOKED-FRESH-BAKED					0.02000	0.000047	0.000	0.000000004794
		22 COOKED-FRESH-BOILED					0.02000	0.000013	0.000	0.00000001326
		23 COOKED-FRESH-BOILED					0.02000	0.000013	0.000	0.00000000000
		62 COOKED-FRESH OR FROZEN-BAKED					0.02000	0.0000277	0.001	0.000000028254
CROP GROUP TOTALS FOR TREE NUTS:										
08048DA	PAPRIKA 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	N	0.011800	0.059	0.0000120300	5.00000	0.011800	0.059	0.00001203600
28080AA	PEPPERMINT 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000002	0.000	0.00000000204	2.00000	0.000002	0.000	0.00000000204
28080AA	PEPPERMINT-OIL 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000510	0.003	0.00000052020	2.00000	0.000510	0.003	0.00000052020
28081AA	SPEARMINT 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000002	0.000	0.00000000204	2.00000	0.000002	0.000	0.00000000204
280810A	SPEARMINT-OIL 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000916	0.005	0.0000009332	2.00000	0.000916	0.005	0.00000093432
CROP GROUP TOTALS FOR HERBS AND SPICES:										
53001BA	BEEF-MEAT BYPRODUCTS 21 COOKED-NFS 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.100	A	0.000883	0.004	0.0000090066	0.01600	0.000262	0.001	0.0000026724
53001BB	BEEF(ORGAN MEATS)-OTHER 21 COOKED-NFS 51 COOKED-CANNED	0.100	A	0.000302	0.002	0.00000030004	0.01600	0.000021	0.000	0.000000002142
53001DA	BEEF-DRIED 21 COOKED-NFS	0.100	A	0.000076	0.000	0.0000007752	0.01600	0.000083	0.000	0.0000008466
53001FA	BEEF(COWBLESS)-FAT (BEEF TALLOW) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100	A	0.037208	0.186	0.00003795216	0.02480	0.000063	0.000	0.0000006426
							0.35000	0.000476	0.002	0.00000048552
							0.35000	0.048925	0.245	0.00004990350

34

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 10

CHEMICAL INFORMATION		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	Cancer-rat NOEL= 2.0000 mg/kg LEL= 120.00 ppm ONCO: B2 (ICPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RFD= 0.020000 EPA RFD= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RFD/PR reviewed 01/27/94 WHO reviewed 1992 RFD/PR reviewed 05/18/95 On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME / FOOD FORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK
	22 COOKED - FRESH-BAKED					0.33000	0.008249	0.041	0.00000841398
	23 COOKED - FRESH-BOILED					0.33000	0.011009	0.055	0.00001122918
	24 COOKED - FRESH-BROILED					0.33000	0.046980	0.235	0.00004791960
	25 COOKED - FRESH-FRIED					0.33000	0.007146	0.036	0.00000728892
53001KA	BEEF (ORGAN MEATS)-KIDNEY	0.100 A	0.000240	0.001	0.00000024480	0.01600	0.000008	0.000	0.00000000816
53001LA	BEEF (ORGAN MEATS)-LIVER	0.100 A	0.001035	0.005	0.00000105570	0.01600	0.000327	0.002	0.0000033354
53001MA	BEEF (BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.100 A	0.034860	0.174	0.00003555720	0.01600	0.000004	0.000	0.00000000408
	10 RAW-FRESH OR NFS					0.02480	0.000001	0.000	0.00000000102
	21 COOKED - NFS					0.02480	0.017165	0.086	0.00001750830
	22 COOKED - FRESH-BAKED					0.02480	0.001182	0.006	0.00000120564
	23 COOKED - FRESH-BOILED					0.02480	0.001826	0.009	0.00000186252
	24 COOKED - FRESH-BROILED					0.02480	0.008644	0.043	0.000000881688
53002AA	GOAT-MEAT BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 A	0.000000	0.000	0.00000000000	0.01600	0.000000	0.000	0.00000000000
53002BB	GOAT(ORGAN MEATS)-OTHER 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 A	0.000000	0.000	0.00000000000	0.01600	0.000000	0.000	0.00000000000
53002FA	GOAT(BONELESS)-FAT	0.100 A	0.000004	0.000	0.0000000408	0.33000	0.000012	0.000	0.0000001224
	23 COOKED - FRESH-BOILED					0.33000	0.000001	0.000	0.00000000102
	25 COOKED - FRESH-FRIED					0.33000	0.000001	0.000	0.00000000000
53002KA	GOAT(ORGAN MEATS)-KIDNEY 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 A	0.000000	0.000	0.00000000000	0.01600	0.000000	0.000	0.00000000000
53002LA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.100 A	0.000006	0.000	0.00000000612	0.02480	0.000004	0.000	0.00000000408
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.100 A	0.000006	0.000	0.00000000612	0.02480	0.000000	0.000	0.00000000000
	23 COOKED - FRESH-BOILED					0.02480	0.000000	0.000	0.00000000000
	25 COOKED - FRESH-FRIED					0.02480	0.000000	0.000	0.00000000000
53003AA	HORSE 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 A	0.000000	0.000	0.00000000000	0.33000	0.000000	0.000	0.00000000000
53005BA	SHEEP-MEAT BYPRODUCTS 21 COOKED-NFS	0.100 A	0.000003	0.000	0.0000000306	0.01600	0.000001	0.000	0.00000000102
53005BB	SHEEP(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.100 A	0.000001	0.000	0.0000000102	0.01600	0.000000	0.000	0.00000000000
53005FA	SHEEP(BONELESS)-FAT 21 COOKED-NFS	0.100 A	0.000430	0.002	0.00000043860	0.33000	0.001418	0.007	0.00000144636
53005KA	SHEEP(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.100 A	0.000004	0.000	0.0000000408	0.01600	0.000000	0.000	0.00000000000
53005LA	SHEEP(ORGAN MEATS)-LIVER 00 NOT SPECIFIED (NO CONSUMPTION)	0.100 A	0.000000	0.000	0.00000000000	0.01600	0.000000	0.000	0.00000000000

35

TOLENTANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 11

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE	DOSES	DATA GAPS/COMMENTS	STATUS
Chlorothalolin Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-Fat NOEL = 2,0000 mg/kg 120.00 ppm LEL = 4,0000 mg/kg 120.00 ppm ONCO: B2 (HCPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	AD1 UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 q*: 0.00766	Opp RfD= 0.020000 EPA RfD= 0.020000 On IRIS.	UF -->100 No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOOD FORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.100 A	0.000375	0.002	0.00000038250	0.02480	0.000286	0.001	0.00000029172
53006BA	PORK-MEAT BYPRODUCTS 21 COOKED-NFS	0.100 A	0.001254	0.006	0.00000127908	0.02480	0.000024	0.000	0.0000002448
53006BB	PORK(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.100 A	0.000192	0.001	0.00000019584	0.01600	0.000401	0.002	0.0000040902
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD) 21 COOKED-FRESH OR NFS 10 RAW-FRESH OR NFS 21 COOKED-NFS 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.100 A	0.0020820	0.104	0.000002123640	0.01600	0.000058	0.000	0.0000005916
53006KA	PORK(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.100 A	0.000005	0.000	0.00000000510	0.33000	0.000566	0.003	0.0000057732
53006LA	PORK(ORGAN MEATS)-LIVER 21 COOKED-NFS	0.100 A	0.000241	0.001	0.00000024582	0.33000	0.032111	0.161	0.00003275322
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT) 21 COOKED-NFS 25 COOKED-FRESH-FRIED 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.100 A	0.011737	0.059	0.00001197174	0.01600	0.00069	0.038	0.0000771524
	CROP GROUP TOTALS FOR RED MEAT:		0.109676	0.548	0.00011186552	0.233082	1.165	0.00023774364	
55008BA	TURKEY-BYPRODUCTS 21 COOKED-NFS 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.100 A	0.000024	0.000	0.0000002448	0.0146	0.000000	0.000	0.0000000000
55008LA	TURKEY-GIBLETS (LIVER) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	" 0.100 A	0.000005	0.000	0.0000000510	0.0146	0.000000	0.000	0.0000000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	" 0.100 A	0.000797	0.004	0.000000081294	0.0146	0.000000	0.000	0.0000000000
55008MB	TURKEY-FLESH(+SKIN, W/O BONES) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	" 0.100 A	0.004817	0.024	0.000000491334	0.0740	0.000008	0.000	0.0000000816
55008MC	TURKEY-UNSPECIFIED 21 COOKED-NFS	" 0.100 A	0.000010	0.000	0.00000001020	0.0044	0.000020	0.000	0.0000002040
						0.0146	0.000001	0.000	0.0000000000

B6

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 12

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Chlorothalonal Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg 120.00 ppm LEL= 4.0000 mg/kg 120.00 ppm ONCO: B2 (ICPRC)	Incr urinary bilirubin levels & kidney vacuolated epithelium. Evidence of carcinogenicity in rats & mice (kidney).	ADI UF -->100 OPP RfD= 0.020000 EPA RfD= 0.020000 Q*: 0.00766	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOOD FORM	TOLERENCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	ARC %RFD	ONCO RISK
55013BA	POULTRY OTHER-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	"	A	0.100	0.000000	0.0000000000	0.00146	0.000000	0.0000000000
55013LA	POULTRY, OTHER GIBLETS(LIVER)	"	A	0.100	0.000023	0.00000002346	0.00146	0.000000	0.0000000000
55013MA	25 COOKED-FRESH-FRIED POULTRY, OTHER-FLESH (+SKIN,W/O BONES)"	0.100	A	0.000539	0.003	0.00000051978	0.00146	0.00000816	0.0000000000
55015BA	21 COOKED-NFS CHICKEN-BYPRODUCTS	"	A	0.000000	0.0000000000	0.0000000000	0.00015	0.000000	0.0000000000
55015LA	00 NOT SPECIFIED (NO CONSUMPTION) 21 COOKED-NFS CHICKEN-GIBLETS(LIVER)	"	A	0.100	0.000506	0.0000000051612	0.00015	0.000000	0.0000000000
55015MA	25 COOKED-FRESH-FRIED 26 COOKED-FRESH-PICKLED,CORNED,OR CURED CHICKEN-FLESH(+O SKIN,W/O BONES)"	0.100	A	0.006014	0.030	0.00000613428	0.10000	0.00003876	0.0000000000
21 COOKED-NFS	22 COOKED-FRESH-BAKED								
25 COOKED-FRESH-FRIED	25 COOKED-FRESH-FRIED								
31 COOKED-FRESH OR CANNED	31 COOKED-FRESH OR CANNED								
53 COOKED-CANNED-BOILED	53 COOKED-CANNED-BOILED								
55015MB	CHICKEN-FLESH(+SKIN,W/O BONES)	"	A	0.100	0.037932	0.190	0.0000386964	0.00044	0.000091
21 COOKED-NFS	25 COOKED-FRESH-FRIED								
CROP GROUP TOTALS FOR POULTRY:		0.050667		0.253	0.00005168034	0.000247	0.001	0.0000025194	
50000DB	MILK-NON-FAT SOLIDS 10 RAW-FRESH OR NFS	0.100	A	0.711286	3.556	0.00072551172	0.019340	0.019395	0.097
21 COOKED-NFS	51 COOKED-CANNED								
50000FA	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS	0.100	A	0.338361	1.692	0.00034512322	0.00430	0.003930	0.020
21 COOKED-NFS	51 COOKED-CANNED								
50000SA	MILK SUGAR (LACTOSE)	0.100	A	0.003743	0.019	0.00000381786	0.00340	0.00340	0.005
21 COOKED-NFS	51 COOKED-CANNED								
55014AA	EGGS-WHOLE 10 RAW-FRESH OR NFS	"	A	0.056450	0.282	0.00005757900	0.00054	0.000002	0.000
21 COOKED-NFS	22 COOKED-FRESH-BAKED								
23 COOKED-FRESH-BOILED	23 COOKED-FRESH-BOILED								
25 COOKED-FRESH-FRIED	25 COOKED-FRESH-FRIED								

37

TOLENTINE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/22/97

PAGE: 13

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
Chlorothalonil Caswell #2158 CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275	Cancer-rat NOEL= 2.0000 mg/kg 120.00 ppm	Incr urinary bilirubin levels & kidney vacuolated epithelium.	ADI UF -->100 0PP RfD= 0.020000 EPA RfD= 0.020000	No data gaps.	HED reviewed 03/14/97 EPA verified 04/08/97 RfD/PR reviewed 01/27/94 WHO reviewed 1992 RfD/PR reviewed 05/18/95 On IRIS.		

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE	TMRC	ANTICIPATED	ARC		
		(PPM)	TYPE (UG/KG/DAY)	%RFD	RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
55014AB	EGGS-WHITE ONLY 10 RAW-FRESH OR NFS	" 0.100 A	0.000920	0.005	0.000000032840	0.000000	0.000
	21 COOKED-NFS				0.000000	0.000000	0.000
	22 COOKED-FRESH-BAKED				0.000000	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED				0.000000	0.000000	0.000
	81 COOKED-FROZEN	" 0.100 A	0.000663	0.003	0.000000067626	0.100000	0.00134
55014AC	EGGS-YOLK ONLY 10 RAW-FRESH OR NFS	" 0.100 A	0.000663	0.003	0.000000067626	0.000015	0.000000
	21 COOKED-NFS				0.000015	0.000000	0.000
	25 COOKED-FRESH-FRIED				0.000015	0.000000	0.000
	31 COOKED-FRESH OR CANNED				0.000015	0.000000	0.000
CROP GROUP TOTALS FOR DAIRY PRODUCTS:		1.111423	5.557	0.00113365146	0.037687	0.188	0.00003844074

RAND TOTALS FOR U.S. POPULATION - 48 STATES

HED reviewed 03/14/97

EPA verified 04/08/97

RfD/PR reviewed 01/27/94

WHO reviewed 1992

RfD/PR reviewed 05/18/95

On IRIS.

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE

38

TABLE 9

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION										14:07 Thursday, September 4, 1997 42																					
NAME: CHLOROTHALONIL		STUDY RDV		NOEL SF		STUDY TYPE		SPECIES		EFF. LEV.		CORE GRADE		DOC. NO.*																	
CASHELL NO: 215B		CFR NO: CFR180.275		A 00000 0150 000060.000		000100 Chronic		Dog		Systemic		Blank		0000001101																	
CAS NO: 01897-45-6		SHAUGHNESSY NO:		081901 B 00000 .6250 001250.000		000100 Terata		Rabbit		Systemic		Blank		0000001107																	
STATUS CODES:		C 00000 .0300 000060.000		000100 Chronic		Rat		Systemic		Blank		0000001101		*																	
RDV INFO: The LD value used in this analysis is 0.01 MG/KG of BODY WEIGHT/DAY										AR DATA: No User Modifications																					
FILE INFO: No Tolerance Data Are Used-Without User Modifications.										AR DATA: No User Modifications																					
*****U.S. POP.: 48 STATES										ESTIMATED % OF POTENTIAL																					
ESTIMATES BASED ON										PERSON DAYS THAT ARE USER-DAYS																					
TOLERANCES:										0.00																					
ANTICIPATED RESIDUES:										99.60																					
0										0.012830																					
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=										0 .2 .4 .6 .8 1 1.2 1.4 1.6 1.8 2 3 4 5 10 15 20																					
TOLERANCES:										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																					
ANTICIPATED RESIDUES:										100 72 61 52 45 39 . 34 29 26 23 20 11 7 4 1 0 0																					
INFANTS(<1 YEAR)										ESTIMATED % OF POTENTIAL																					
ESTIMATES BASED ON										PERSON DAYS THAT ARE USER-DAYS																					
TOLERANCES:										0.00																					
ANTICIPATED RESIDUES:										91.72																					
0										0.015234																					
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=										0 .2 .4 .6 .8 1 1.2 1.4 1.6 1.8 2 3 4 5 10 15 20																					
TOLERANCES:										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																					
ANTICIPATED RESIDUES:										100 64 57 50 43 37 33 29 26 23 21 15 11 8 2 1 0																					
CHILDREN(1-6 YRS)										ESTIMATED % OF POTENTIAL																					
ESTIMATES BASED ON										PERSON DAYS THAT ARE USER-DAYS																					
TOLERANCES:										0.00																					
ANTICIPATED RESIDUES:										99.66																					
0										0.022684																					
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=										0 .2 .4 .6 .8 1 1.2 1.4 1.6 1.8 2 3 4 5 10 15 20																					
TOLERANCES:										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																					
ANTICIPATED RESIDUES:										100 77 68 60 55 50 47 43 40 37 34 25 18 14 3 1 0																					

39

- FEMALE (13+ YRS)

ESTIMATES BASED ON TOLERANCES:	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
ANTICIPATED RESIDUES:	0.00	0.000000	0.00
	99.63	0.010890	108.90
	0	0	0
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X = 0	0.2	.4	.6
	0	.8	1
	1	1.2	1.4
	2	1.6	1.8
	3	2	2
	4	3	3
	5	4	4
	10	5	5
	15	2	0
	20	0	0

ESTIMATES BASED ON TOLERANCES:		ESTIMATED % OF POTENTIAL PERSON DAYS THAT ARE USER-DAYS		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY													
ANTICIPATED RESIDUES:		0.00 99.81		.000000 0.010767		.00 107.67		MG/KG BODY WEIGHT/DAY		AS PERCENT OF RDV							
0	0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTICIPATED RESIDUES:	100	72	60	50	42	36	30	26	23	20	17	8	4	2	0	0	0

General U.S. Population

$$\text{Exposure} = \text{RDV} \times X$$

$$= 0.01 \times 15$$

$$\begin{aligned}
 \text{MOE} &= \text{Noel} + \text{Exposure} \\
 &= 175 \text{ mg/kg/day} + 0.15 \text{ mg/kg/day} \\
 \text{MOE} &= 1.166
 \end{aligned}$$

Infants (< 1 year)

Exposure = RDV \times X
= 0.01 \times 20
High End Exposure = 0.2

MOE = Noel + Exposure
= 1.75 mg/kg/day + 0.2 mg/kg/day
MOE = 8.75

Children (1-6 years)

Exposure = RDV \times X
= 0.01 \times 20
High End Exposure = 0.2

MOE = Noel + Exposure
= 1.75 mg/kg/day + 0.2 mg/kg/day
MOE = 8.75

Females (13+ Years):

Exposure = RDV \times X
= 0.01 \times 10
High End Exposure = 0.1

MOE = Noel + Exposure
= 1.75 mg/kg/day + 0.1 mg/kg/day
MOE = 17.50

Males (13+ Years):

Exposure = RDV \times X
= 0.01 \times 10
High End Exposure = 0.1

MOE = Noel + Exposure
= 1.75 mg/kg/day + 0.1 mg/kg/day
MOE = 17.50

40

215B	01009AA10	1.0000	BLUEBERRIES	215B	06002AB21	0.0500
215B	01009AA21	1.0000	BLUEBERRIES	215B	06002AB31	0.0500
215B	01009AA22	1.0000	BLUEBERRIES	215B	06002DA10	0.0500
215B	01009AA62	1.0000	BLUEBERRIES	215B	06002DA21	0.0500
215B	01010AA10	5.0000	CRANBERRIES	215B	06002DA22	0.0500
215B	01010AA21	5.0000	CRANBERRIES	215B	06010AA00	15.0000
215B	01010AA31	5.0000	CRANBERRIES	215B	06010AA21	5.0000
215B	01010JA15	5.0000	CRANBERRY-JUICE	215B	06007AA10	1.0000
215B	01010JA31	5.0000	CRANBERRY-JUICE	215B	06007AA21	1.0000
215B	03001AA10	0.0500	ALMONDS	215B	06010AB10	15.0000
215B	03001AA21	0.0500		215B	06010AB51	15.0000
215B	03001AA22	0.0500		215B	06010DA10	15.0000
215B	03005AA10	0.1000	FILBERTS	215B	06010DA21	0.0500
215B	03005AA21	0.1000	FILBERTS	215B	06014AA00	3.0000
215B	03005AA22	0.1000	FILBERTS	215B	06016AA21	0.0500
215B	03008AA10	0.0200	PECANS	215B	06016AA23	0.0500
215B	03008AA21	0.0200	PECANS	215B	06016AA25	0.0500
215B	03008AA22	0.0200	PECANS	215B	07001FA21	0.0500
215B	03008AA23	0.0200	PECANS	215B	07001SA10	0.0500
215B	03008AA62	0.0200	PECANS	215B	07001SA21	0.0500
215B	03011AA10	0.2000	PISTACHIOS	215B	07001SA22	0.0500
215B	05001AA10	0.5000	APRICOTS-FRESH	215B	07002AA21	0.2000
215B	05001AA21	0.5000	APRICOTS-FRESH	215B	08048DA00	5.0000
215B	05001AA31	0.5000	APRICOTS-FRESH	215B	10002AA00	5.0000
215B	05001AA40	0.5000	APRICOTS-FRESH	215B	10002AB10	5.0000
215B	05001DA22	0.5000	APRICOTS-DRIED	215B	10002AB21	5.0000
215B	05002AA10	0.5000	APRICOTS-DRIED	215B	10003AA10	5.0000
215B	05002AA21	0.5000	CHERRIES-FRESH	215B	10004AA00	5.0000
215B	05002AA31	0.5000	CHERRIES-FRESH	215B	10005AA10	5.0000
215B	05002AA62	0.5000	CHERRIES-FRESH	215B	10007AA00	5.0000
215B	05002DA00	0.5000	CHERRIES-FRESH	215B	10008AA10	5.0000
215B	05002DA15	0.5000	CHERRIES-FRESH	215B	10008AA21	5.0000
215B	05002JA15	0.5000	CHERRIES-JUICE	215B	10010AA10	5.0000
215B	05002JA21	0.5000	CHERRIES-JUICE	215B	10010AA11	5.0000
215B	05002JA22	0.5000	CHERRIES-JUICE	215B	10010AA21	5.0000
215B	05003AA10	0.5000	NECTARINES	215B	10011AA21	5.0000
215B	05004AA10	0.5000	PEACHES-FRESH	215B	10011AA22	5.0000
215B	05004AA21	0.5000	PEACHES-FRESH	215B	10011AA62	5.0000
215B	05004AA31	0.5000	PEACHES-FRESH	215B	10013AA10	5.0000
215B	05004AA51	0.5000	PEACHES-FRESH	215B	10013AA21	5.0000
215B	05004DA10	0.5000	PEACHES-DRIED	215B	10014AA10	5.0000
215B	05004DA21	0.5000	PEACHES-DRIED	215B	10014AA21	5.0000
215B	05005AA10	0.2000	PLUMS-FRESH	215B	10014AA22	5.0000
215B	05005AA31	0.2000	PLUMS-FRESH	215B	10014AA31	5.0000
215B	05005DA10	0.2000	PLUMS-PRUNES	215B	10017AA21	5.0000
215B	05005DA21	0.2000	PLUMS-PRUNES	215B	10020AA00	5.0000
215B	05005DA31	0.2000	PLUMS-PRUNES	215B	11003AB00	5.0000
215B	05005JA10	0.2000	PRUNE-JUICE	215B	11003AD10	5.0000
215B	05005JA62	0.2000	PRUNE-JUICE	215B	11003AD21	5.0000
215B	06002AA22	0.0500	BANANAS-UNSPEC	215B	11003AD51	5.0000
215B	06002AB10	0.0500	BANANAS-FRESH	215B	11004AA10	5.0000
				215B	11004AA21	5.0000
				215B	11004AA31	5.0000
				215B	11005AA10	5.0000

42

TOMATOES-WHOLE			POTATO(WH)-UNSPE	
215B 11005AA21	5.0000		215B 14013AC21	0.1000
TOMATOES-WHOLE			POTATO(WH)-PULP	
215B 11005AA31	5.0000		215B 14013AC22	0.1000
TOMATOES-WHOLE			POTATO(WH)-PULP	
215B 11005JA10	5.0000		215B 14013AC23	0.1000
TOMATOES-JUICE			POTATO(WH)-PULP	
215B 11005JA21	5.0000		215B 14013AC25	0.1000
TOMATOES-JUICE			POTATO(WH)-PULP	
215B 11005RA10	5.0000		215B 14013DA10	0.1000
TOMATOES-PUREE			POTATO(WH)-DRY	
215B 11005RA21	5.0000		215B 14013DA31	0.1000
TOMATOES-PUREE			POTATO(WH)-DRY	
215B 11005RA31	5.0000		215B 14013HA22	0.1000
TOMATOES-PUREE			POTATO(WH)-PEEL	
215B 11005RA32	5.0000		215B 14017AA00	5.0000 SHALLOTS
TOMATOES-PUREE			215B 14021AA21	1.0000 PARSNIPS
215B 11005RA51	5.0000		215B 15001AA00	0.1000
TOMATOES-PUREE			BEANS-DRY-GRT NO	
215B 11005TA21	5.0000		215B 15001AB21	0.1000
TOMATOES-PASTE			BEANS-DRY-KIDNEY	
215B 11005TA22	5.0000		215B 15001AB31	0.1000
TOMATOES-PASTE			BEANS-DRY-KIDNEY	
215B 11005TA31	5.0000		215B 15001AC21	0.1000
TOMATOES-PASTE			BEANS-DRY-LIMA	
215B 11005UA21	5.0000		215B 15001AD21	0.1000
TOMATOES-CATSUP			BEANS-DRY-NAVY	
215B 13002AA10	15.0000 CELERY		215B 15001AD31	0.1000
215B 13002AA21	15.0000 CELERY		BEANS-DRY-NAVY	
215B 13005AA21	5.0000 BROCCOLI		215B 15001AE21	0.1000
215B 13005AA31	5.0000 BROCCOLI		BEANS-DRY-OTHER	
215B 13005AA63	5.0000 BROCCOLI		215B 15001AE25	0.1000
215B 13006AA21	5.0000 BRUSSEL		BEANS-DRY-OTHER	
SPROUTS			215B 15001AE31	0.1000
215B 13006AA23	5.0000 BRUSSEL		BEANS-DRY-OTHER	
SPROUTS			215B 15001AF21	0.1000
215B 13007AA10	5.0000 CABBAGE		BEANS-DRY-PINTO	
215B 13007AA11	5.0000 CABBAGE		215B 15003AA21	5.0000
215B 13007AA21	5.0000 CABBAGE		BEANS-SUCC-GREEN	
215B 13008AA10	5.0000 CAULIFLOWER		215B 15005AA10	1.0000 CORN,SWEET
215B 13008AA21	5.0000 CAULIFLOWER		215B 15005AA21	1.0000 CORN,SWEET
215B 13010AA10	5.0000		215B 15005AA31	1.0000 CORN,SWEET
CABBAGE-CHINESE			215B 15006AA10	0.3000
215B 13010AA21	5.0000		PEANUTS-WHOLE	
CABBAGE-CHINESE			215B 15006AA21	0.3000
215B 13016AA00	15.0000 FENNEL		PEANUTS-WHOLE	
215B 14003AA10	1.0000 CARROTS		215B 15006AA22	0.3000
215B 14003AA21	1.0000 CARROTS		PEANUTS-WHOLE	
215B 14003AA23	1.0000 CARROTS		215B 15013AA10	0.1000 MUNG BEANS
215B 14003AA31	1.0000 CARROTS		215B 15013AA21	0.1000 MUNG BEANS
215B 14003AA51	1.0000 CARROTS		215B 15022AA00	0.1000
215B 14007AA10	0.5000 GARLIC		BEANS-DRY-BROAD	
215B 14007AA21	0.5000 GARLIC		215B 15023AA21	0.1000
215B 14007AA32	0.5000 GARLIC		BEANS-DRY-PIGEON	
215B 14010AA31	5.0000 LEEKS		215B 15029AA00	0.2000
215B 14011AA10	0.5000		SOYBEAN-SPROUTED	
ONIONS-DRY-BULB			215B 15030AA00	0.1000
215B 14011AA21	0.5000		BEANS-DRY-HYAC	
ONIONS-DRY-BULB			215B 15031AA21	0.1000 BLKEYE
215B 14011AA22	0.5000		PEAS-DRY	
ONIONS-DRY-BULB			215B 15032AA21	0.1000 BEANS-DRY
215B 14011AA31	0.5000		215B 15032AA31	0.1000 BEANS-DRY
ONIONS-DRY-BULB			215B 16002AA21	0.1000 ASPARAGUS
215B 14011DA12	0.5000 ONIONS-DRIED		215B 16002AA23	0.1000
215B 14013AA10	0.1000		215B 16003AA10	7.0000 MUSHROOMS
POTATO(WH)-WHOLE			215B 16003AA21	7.0000 MUSHROOMS
215B 14013AA21	0.1000		215B 16003AA31	7.0000 MUSHROOMS
POTATO(WH)-WHOLE			215B 16003AA53	7.0000 MUSHROOMS
215B 14013AA22	0.1000		215B 16004AA10	5.0000 ONIONS-GREEN
POTATO(WH)-WHOLE			215B 16004AA21	5.0000 ONIONS-GREEN
215B 14013AB22	0.1000		215B 16004AA25	5.0000 ONIONS-GREEN

43

215B 270070A18 0.3000 PEANUTS-OIL
215B 270100A18 0.2000 SOYBEANS-OIL
215B 28023AA21 0.2000
SOYBEANS-UNSPEC
215B 28023AB10 0.2000 SOYBEANS-DRY
215B 28023AB21 0.2000 SOYBEANS-DRY
215B 28023AB23 0.2000 SOYBEANS-DRY
215B 28023AB25 0.2000 SOYBEANS-DRY
215B 28023AB31 0.2000 SOYBEANS-DRY
215B 28023WA21 0.2000 SOY-FL, FULL
FAT
215B 28023WA22 0.2000 SOY-FL, FULL
FAT
215B 28023WA31 0.2000 SOY-FL, FULL
FAT
215B 28023WB21 0.2000 SOY-FL, LOW
FAT
215B 28023WC10 0.2000 SOY-FL,DEFAT
215B 28023WC21 0.2000 SOY-FL,DEFAT
215B 28023WC22 0.2000 SOY-FL,DEFAT
215B 28023WC51 0.2000 SOY-FL,DEFAT
215B 28023WC53 0.2000 SOY-FL,DEFAT
215B 28080AA00 2.0000 PEPPERMINT
215B 280800A00 2.0000
PEPPERMINT-OIL
215B 28081AA00 2.0000 SPEARMINT
215B 280810A00 2.0000
SPEARMINT-OIL

4/4