



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

APR 19 1993

MEMORANDUM

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Carcinogenic Risk Assessments for Exposure to
Hexachlorobenzene and Pentachlorobenzene Through
Use of Pentachloronitrobenzene

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As requested by SRRD, upper bound estimates of carcinogenic risk for hexachlorobenzene (HCB) and pentachlorobenzene (PCB) resulting from use of the fungicide pentachloronitrobenzene (PCNB) were calculated using the Dietary Risk Evaluation System (DRES). Anticipated residues from CBRS and percent crop treated information from BEAD were included in the analyses.

Background

Concern was raised about carcinogenic risk from pentachlorobenzene (PCB) and hexachlorobenzene (HCB), two impurities of PCNB, in a S. Schaible memo to S. Stanton dated 5/13/91, which addressed a Section 18 Specific Exemption Use of PCNB on potatoes in Washington. In that memo, the combined cancer risk of these two impurities through the proposed use on potatoes and resulting residues in meat and milk was found to be 2×10^{-3} , though 100 percent crop treated was assumed for all commodities in the analysis. Prior to the 5/13/91 analysis, risk assessments for PCNB had only considered HCB residues in addition to PCNB; the 5/13/91 analysis used residue levels supplied by CBRS (D. McNeilly memo dated 4/23/91) for **HCB and PCB combined**.

Since that analysis, CBRS has generated anticipated residue estimates for PCNB, HCB, and PCB residues resulting from use of PCNB on those commodities for which tolerances exist (D. McNeilly memos dated 1/10/92 and 3/3/93). Refinement in the percent of crop treated information for PCNB has also been calculated by



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BEAD and supplied in two S. Smearman memos dated 9/10/91 (PQUA) and 8/7/92. In addition, Toxicology Branch I of HED released a memo (K. Baetcke to W. Smith, 8/21/92) stating that "based on the similarities of the chemical structures and toxicities of HCB and PCB, it is reasonable to assume that the carcinogenic potential of PCB is probably comparable to [that of] HCB". Based on this memo, the Q* for HCB was applied to PCB so that carcinogenic risk through the diet from PCB could be calculated.

These refinements in residue and percent of crop treated information, as well as the conditional Q* for PCB, were incorporated into two DRES carcinogenic risk assessments calculating upper bound cancer risk from the impurities in PCNB. Carcinogenicity is the endpoint we are most concerned about with these chemicals.

Toxicological Endpoints

1. Chronic Non-Cancer: The toxicological endpoint we are most concerned with in this analysis is cancer. However, chronic exposure and risk related to endpoints other than cancer was considered for PCNB and HCB. Since no RfD has been established for PCB, chronic risk from this chemical was not calculated.

Exposure from PCNB and its metabolites was compared to a reference dose (RfD) of 0.003 mg/kg body weight/day, based on a No Observed Effect Level (NOEL) of 0.75 mg/kg bwt/day and an uncertainty factor of 300. This NOEL was taken from a two year feeding study in dogs which demonstrated as effects cholestatic hepatitis and secondary bile nephrosis. This RfD has been approved by both HED (3/17/87) and the Agency (4/15/87).

Exposure from HCB was compared to a RfD of 0.0008 mg/kg bwt/day, based on a NOEL of 0.08 mg/kg bwt/day and an uncertainty factor of 100. The NOEL was taken from a 130 wk feeding study in rats which demonstrated hepatic centrilobular basophilic chromogenesis as an effect. This RfD has also been approved by both HED (5/5/88) and the Agency (5/26/88).

2. Carcinogenicity: PCNB is classified as a Group C possible human carcinogen with quantification of carcinogenic potency inappropriate at this time (HED Cancer Peer Review Document, P. Hurley and E. Rinde to R. Taylor and S. Cerrelli, 12/18/92). HCB has been classified as a Group B2 probable human carcinogen with an upper bound carcinogenic potency factor of 1.7 (mg/kg/day)⁻¹.

As was mentioned before, Toxicology Branch I of HED has stated that it is reasonable to assume that the carcinogenic potential of PCB is probably comparable to HCB. However, in K. Baetcke's memo, there is a caveat to this statement pointing out that there is insufficient data presently available in house on the metabolism of HCB to make a valid comparison between HCB and PCB. In the absence of this data and for the purpose of estimating the possible carcinogenic risk attributable to PCB residues resulting from use of PCNB, the upper bound potency factor (Q₁*) for HCB of 1.7 is being assumed for PCB in this

analysis. It should be emphasized that this Q* for PCB is not based on data from a two year bioassay for PCB, but is basically an interim Q* until such data is supplied, reviewed, and found acceptable.

Since quantification of upper bound carcinogenic potency for PCNB is considered inappropriate at this time, quantifiable cancer risk from the use of PCNB on the crops included in this analysis is assumed only to come from HCB and PCB.

Residue Information

Food uses evaluated in this analysis were the published tolerances listed in 40 CFR 180.291, interim tolerances for PCNB and its metabolites listed in 40 CFR 180.319, and secondary residues of PCNB, HCB, and PCB in meat, milk, poultry, and eggs resulting from livestock consumption of PCNB-treated feed items.

The interim tolerances included in the analysis were established in 1972, but no date of expiration was designated and use of PCNB has continued on many of these crops. It is expected that this anomaly will be addressed and corrected through the reregistration of PCNB. However, reregistration of this chemical is not scheduled to come up in fiscal years 1993 or 1994.

Apparently the reason PCNB tolerances do not exist for livestock commodities (meat, milk, poultry, and eggs) is that most of the commodities which could potentially be used as feed items have interim instead of permanent tolerances. Of the commodities having permanent or interim tolerances, detectable residues of PCNB are generally found only in potatoes and peanuts. To the extent that either of these items is fed to livestock, residues of HCB and PCB will be in the fat (personal communication with Bart Suhre, 3/24/93). It is expected that tolerances for livestock commodities will be required as part of the reregistration process (personal communication, W. Smith, 3/19/93).

There are no published tolerances for either HCB or PCB on any of the commodities included in these analyses. Anticipated residues (ARs) for PCNB, HCB, and PCB were supplied by CBRS in a D. McNeilly memo dated 1/10/92. Residues were calculated from field trial data generated by the registrants for reregistration purposes. ARs were supplied in the memo for the following commodities: beans, broccoli, brussel sprouts, cabbage, cauliflower, garlic, peppers, potatoes, tomatoes, collards, kale, mustard greens, peanuts, and cottonseed. Secondary residues in meat, milk, poultry, and eggs were also supplied in this memo. An anticipated residue value of 0.008 ppm for PCNB in garlic was used in the analyses instead of the residue value of 0.14 ppm given in the McNeilly memo (which was based on surrogate potato data); the 0.008 ppm value was taken from a B. Cropp-Kohlligian memo dated 5/12/92 addressing an addendum to the PCNB label for garlic. DRES default concentration factors for tomato and potato processed products were turned off because residues (PCNB, HCB, and PCB) are not expected to concentrate in the processed food

items of these commodities (D. McNeilly, 1/10/92).

There was some question of whether to include the commodity bananas in the DRES analyses. It appears that this use has been dropped from most if not all of the PCNB labels (personal communication, D. McNeilly, 5/11/92), and anticipated residues for bananas were not included in the 1/10/92 CBRS memo. However, it is the normal practice of this section to include in chronic analyses all uses for which published tolerances exist; for bananas especially, there is the possibility that imported bananas containing residues of PCNB and its impurities may exist in the food supply. At the request of DRES, CBRS supplied ARs for residues of PCNB, HCB, and PCB in bananas in a D. McNeilly memo dated 3/3/93. Percent of crop treated information for bananas was not requested; the DRES default value of 100% crop treated was assumed.

At the recommendation of CBRS (D. McNeilly, 3/3/93), an AR of 0.14 ppm for PCNB in potatoes was used in the chronic analysis for PCNB, despite the fact that the tolerance for potatoes exists at 0.1 ppm. Data submitted separately from two different manufacturers of PCNB support this value, and one manufacturer has voluntarily dropped its registration on potatoes from the label based on these findings. It is acknowledged that the tolerance on potatoes needs to be revised upwards to reflect this new data, and that unless such a new tolerance is approved, potatoes containing over tolerance residues are in violation of the law and are subject to seizure by the FDA. Since upper bound cancer risks were not calculated for PCNB, the use of this tolerance exceeding AR does not affect cancer risk assessments. Incremental risk posed by using 0.14 ppm value as opposed to the tolerance in the chronic analysis is negligible.

Data were not reported to CBRS for PCB residues in poultry fat and therefore no anticipated residues were generated. So that exposure and risk from PCB residues in poultry fat would be considered in the analysis, a ratio of HCB residues to PCB residues in cattle fat was derived using the values listed in Table 1 of D. McNeilly's memo dated 1/10/92. The value for HCB residues in poultry fat was multiplied by this ratio to get a theoretical residue value of 0.0002 ppm for PCB in poultry fat (this method at the suggestion of D. McNeilly, personal communication, 10/27/92).

Percent crop treated information used in this analysis was supplied by the Biological and Economic Analysis Division (BEAD) in two S. Smearman memos dated 9/10/91 and 8/7/92. Where a range of values was given, the upper end of the range was used in the analysis.

Summaries of the residue information uses in the analyses of PCNB, HCB, and PCB are attached as Tables 1A, 1B, and 1C, respectively.

Exposure Analysis

The DRES chronic exposure analyses for PCNB, HCB, and PCB used tolerance level residues and 100 percent crop treated to estimate the Theoretical Maximum Residue Contributions (TMRCs) for the overall U.S. population and 22 DRES population subgroups. Anticipated residues and refined percent crop treated information were used to calculate the Anticipated Residue Contributions (ARCs) for those same DRES population groups. The ARC is considered the more accurate estimate of exposure.

The ARC for the overall U.S. population from all uses of PCNB is 0.000010 mg/kg bwt/day, which represents less than 0.4% of the RfD. The subgroup most highly exposed, non-nursing infants less than one year old, has an ARC of 0.000032 mg/kg bwt/day, or 1.1% of the RfD. Based on these exposure and risk values, it appears that chronic risk is minimal.

The ARC for the overall U.S. population from HCB residues resulting from use of PCNB is 0.000002 mg/kg bwt/day, which represents 0.25% of the RfD for HCB. Non-nursing infants less than one year old (the subgroup having the highest dietary exposure to HCB) have an ARC of 0.000005 mg/kg bwt/day, or 0.6% of the RfD; none of the subgroups has an exposure which exceeds one percent of the RfD for HCB. Based on these estimates, it would appear that chronic dietary risk from HCB is minimal. The TMRCs, ARCs, and their representations as percentages of the RfD for PCNB and HCB are attached as Tables 2A (PCNB) and 2B (HCB).

There is not presently an RfD for PCB and chronic risk from PCB for an endpoint other than carcinogenicity was not calculated as part of these analyses. Given that the residue values for PCB are roughly similar to those for HCB and that consumption values are the same, exposure to PCB would be in the same range as HCB exposure. Since it is very unlikely that an RfD for PCB would be much lower than that of HCB, chronic risk from PCB would also probably be minimal if it were able to be calculated.

Carcinogenic Risk

The upper bound carcinogenic risk for HCB and PCB was calculated for the overall U.S. population using the following relationship:

$$\text{Upper Bound Cancer Risk} = \text{Dietary Exposure (ARC)} \times Q^*$$

An upper bound potency factor of $1.7 \text{ (mg/kg/day)}^{-1}$ and a 70 year lifetime exposure were assumed in the calculation of the upper bound carcinogenic risk for both impurities. The major contributors of risk by commodity from each chemical are listed in the table on the next page. Because there is some question as to whether bananas should or should not be included in the DRES analyses, total upper bound cancer risk from HCB and PCB was reported both including and excluding cancer risk from bananas.

Upper Bound Estimates of Cancer Risk for HCB and PCB by Commodity

<u>Commodity</u>	<u>HCB</u>	<u>PCB</u>
Bananas	9.8 E-7	3.9 E-6
Tomatoes	4.1 E-7	5.4 E-7
Potatoes	1.3 E-7	5.4 E-7
Peanuts	2.9 E-8	1.7 E-7
Beans	1.2 E-7	8.7 E-8
Meat	1.8 E-7	1.1 E-7
Milk	1.8 E-7	1.8 E-7
Poultry and Eggs	1.4 E-6	1.6 E-7
Other	3.4 E-8	3.7 E-8
Total*		
- with bananas	3.41 E-6	5.73 E-6
- without bananas	2.44 E-6	1.81 E-6

* due to rounding error, individual risks from commodities may not add up to the total risks for HCB and PCB

The individual upper bound cancer risks for both HCB and PCB either exceed or fall within the range of 10^{-6} , the value the Agency generally considers negligible, depending on whether risks from bananas are included or not. With the exception of bananas, these cancer risks reflect refinements in both the residue and percent of crop treated information. There is possible variability in the risk estimates introduced through the various translations of the residue data to the DRES files for these chemicals (e.g., the derived AR for PCB residues in "poultry, fat").

Cancer risks for HCB and PCB residues on bananas are probably overestimated due to the assumption that all bananas are treated with PCNB (and thus stand the chance of having HCB and PCB residues on them). Any potential exposure to these chemicals would have to come from imported bananas since PCNB is not registered for use on bananas in the United States. To the extent that all bananas are not imported and that all imported bananas are not treated with PCNB, it is likely that cancer risks for bananas are overestimates. FDA monitoring data over the past several years have not detected PCNB or HCB residues in bananas sampled (W.Smith memorandum, 1/22/93).

It should be noted that there is uncertainty surrounding the risk numbers for livestock commodities (meat, milk, poultry, and eggs). According to CBRS (McNeilly memo, 1/10/92), of the feed items listed in Table 39 (pp. 57-8), only peanut meal and cottonseed oil are likely to be used as feed items at the national level. Since Uniroyal residue data for both of these commodities were generated by Craven Laboratories (and therefore not usable for risk assessment) and Amvac data were likewise unsuitable, potato residue data were chosen by CBRS to derive

meat and milk ARs. Potatoes are not likely to be fed to livestock on the national level, and it is therefore unclear how accurate cancer risk estimates are for livestock commodities calculated using ARs based on a diet of potatoes. Though CBRS is not able to calculate ARs based on a likely dietary burden of peanut meal and cottonseed oil, CBRS supports the anticipated residues generated from the potato data as the best values to use in the absence of better data. Given that cancer risk from meat, milk, poultry and eggs accounts for a significant portion of the total risk, especially from HCB (1.7×10^{-6} for HCB, 4.5×10^{-6} for PCB), the assumptions used in coming up with these anticipated residues should be noted.

The tolerances for PCNB on potatoes and tomatoes are included in a recent list of pesticide uses which have no established §409 tolerances, but have data suggesting that residues in a processed food (in this case, wet and dry pomace of potatoes and tomatoes) may concentrate above the established §408 tolerances (press release, Feb. 2, 1993; EPA Docket # OPP-260053). As such, they are potentially subject to revocation, should EPA be held to a strict interpretation of the Delaney clause. If these tolerances were revoked, the aforementioned cancer risks would be decreased by at least 5.4×10^{-7} for HCB and by 1.1×10^{-6} for PCB. Cancer risk from livestock commodities would not be affected on a national level from these revocations, since neither tomatoes nor potatoes are likely to be used as feed items on a national level (McNeilly, 1/10/92).

Given the similarities in the chemical structures and toxicities of HCB and PCB, it is possible that cancer risks from these two impurities are additive. This is a question to be posed to the Toxicology Branches of HED, but assuming additivity, the upper bound cancer risk from HCB and PCB together is 9.15×10^{-6} including risk from bananas and 4.25×10^{-6} excluding risk from bananas.

Carcinogenic risks by commodity for HCB and PCB are attached as Tables 3A (HCB) and 3B (PCB).

Because there were so many unusual assumptions that affect these cancer risk assessments, the more important ones are summarized as follows:

1. PCB is assumed to have comparable carcinogenic potential to HCB and the same upper bound potency factor.
2. There are no tolerances for HCB or PCB, but residues are expected in some commodities.
3. PCNB residues in potatoes were found to be over tolerance; these higher residues were used in the risk assessment instead of the tolerance.
4. Meat, milk, and poultry residue estimates are based on (over tolerance) potato residues, percent crop treated, and percent of potatoes in the animals' diet, even though potatoes are not expected to be consumed (on a national scale) by these animals.

5. Potato and tomato tolerances may be revoked due to Delaney issues.
6. Possible accumulation of HCB in soil, with consequently higher residues in crops, has not been taken into account in this analysis.
7. All bananas are assumed to be treated with PCNB; though its use on bananas is not allowed in the U.S., PCNB may be applied in other countries who export bananas to the U.S. It is doubtful that this scenario represents 100 percent crop treated.

Attachments

cc: DRES, CBRS, Tox 1, W. Smith, RSB/RD, PM 25 (Taylor),
Caswell #s 640 and 477

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 640

FOOD CODE

11 RAW-FRESH-PICKLED, CORNED, OR CURED CABBAGE

9

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 640

DATE: 03/09/93

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCNB (Quintozene)		2yr feeding- dog		Cholestatic hepatitis and secondary bile nephrosits. Insufficient data for assessment of oncogenicity.		PADI UF -->300 OPP RfD= 0.003000 EPA RfD= 0.003000		Developmental tox- rabbit (core supplementary) q* not applicable. (Syn. Pentachloronitrobenzene).		WHO last reviewed 1977. HED complete 07/18/86. EPA verified 08/18/86. HED complete 03/17/87. EPA verified 04/15/87. On IRIS.	
CAS No. 82-68-8		NOEL= 0.7500 mg/kg 30.00 ppm									
A.I. CODE: 056502		LEL= 4.5000 mg/kg 180.00 ppm									
CFR No. 180.291		ONCO: C (HED)									
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)			
13007AA	CABBAGE	21 COOKED-NFS	INTERIM	P 0.100000	0.005000		2.00	0.000100			
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.009000		2.00	0.000180			
13008AA	CAULIFLOWER	21 COOKED-NFS	INTERIM	P 0.100000	0.009000		2.00	0.000180			
13009AA	COLLARDS	51 COOKED-CANNED	9E2249	P 0.200000	0.033000		2.00	0.000660			
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	9E2249	P 0.200000	0.033000		2.00	0.000660			
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.005000		2.00	0.000100			
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	INTERIM	P 0.100000	0.005000		2.00	0.000100			
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	9E2249	P 0.200000	0.033000		2.00	0.000660			
13021AA	MUSTARD GREENS	21 COOKED-NFS	9E2249	P 0.200000	0.033000		2.00	0.000660			
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	9E2249	P 0.200000	0.033000		2.00	0.000660			
14007AA	GARLIC	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.008000		10.00	0.000800			
14007AA	GARLIC	21 COOKED-NFS	INTERIM	P 0.100000	0.008000		10.00	0.000800			
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	INTERIM	P 0.100000	0.008000		10.00	0.000800			
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AB	POTATO(WH)-UNSPLE	22 COOKED-FRESH-BAKED	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	INTERIM	P 0.100000	0.140000	rereg data	1.00	0.001400			
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.140000C	rereg data	1.00	0.001400			
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.100000	0.140000C	rereg data	1.00	0.001400			
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	INTERIM	P 0.100000	0.140000C	rereg data	1.00	0.001400			
15001AA	BEANS-DRY-KIDNEY	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AD	BEANS-DRY-LIMA	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AD	BEANS-DRY-LIMA	31 COOKED-FRESH OR CANNED	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH-FRIED	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	21 COOKED-FRESH OR CANNED	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125			
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.017000		5.00	0.000850			
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	INTERIM	P 0.100000	0.017000		5.00	0.000850			
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	INTERIM	P 0.100000	0.048000		5.00	0.002400			
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.048000		5.00	0.002400			
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	INTERIM	P 0.100000	0.048000		5.00	0.002400			
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	INTERIM	P 0.100000	0.048000		5.00	0.002400			

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 640

DATE: 03/09/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
PCNB (Quintozene) Caswell #640 CAS No. 82-68-8 A.I. CODE: 056502 CFR No. 180.291	2yr feeding- dog NOEL= 0.7500 mg/kg 30.00 ppm LEL= 4.5000 mg/kg 180.00 ppm ONCO: C (HED)	Cholestatic hepatitis and secondary bile nephrosis. Insufficient data for as- sessment of oncogenicity.	PADI UF -->300 OPP RfD= 0.003000 EPA RfD= 0.003000	Developmental tox- rabbit (core supplementary) q* not applicable. (Syn. Pentachloronitro- benzene).	WHO last reviewed 1977. HED complete 07/18/86. EPA verified 08/18/86. HED complete 03/17/87. EPA verified 04/15/87. 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)
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	INTERIM	P 1.000000	0.443000		5.00	0.022150
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	INTERIM	P 1.000000	0.443000		5.00	0.022150
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	INTERIM	P 1.000000	0.443000		5.00	0.022150
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125
15013AA	MUNG BEANS	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.100000	0.002500		5.00	0.000125
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.100000	0.048000		5.00	0.002400
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125
15027AA	BEANS-UNSPEC	21 COOKED-NFS	INTERIM	P 0.100000	0.048000		5.00	0.002400
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.100000	0.002500		5.00	0.000125
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.100000	0.048000		5.00	0.002400
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125
15032AA	BEANS-DRY	21 COOKED-NFS	INTERIM	P 0.100000	0.002500		5.00	0.000125
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.100000	0.002500		5.00	0.000125
270030A	COTTONSEED-OIL	18 PROCESSED OIL	9F0754	P 0.100000	0.003000		10.00	0.000300
270030A	COTTONSEED-MEAL	18 PROCESSED OIL	9F0754	P 0.100000	0.443000		5.00	0.022150
270070A	PEANUTS-OIL	18 PROCESSED OIL	INTERIM	P 1.000000	0.443000		100.00	0.000004
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
50000SA	MILK SUG (LACT)	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001BA	BEEF-HEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001BA	BEEF-HEAT BYP	26 COOKED-FRESH-PICKLED,CORNE,OR CURED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001DA	BEEF-DRIED	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001KA	BEEF-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004
53001HA	BEEF-LEAN	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 640

DATE: 03/09/93

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCNB (Quintozene)		2yr feeding- dog		Cholestatic hepatitis and secondary bile nephrosis. Insufficient data for assessment of oncogenicity.		PADI UF -->300 OPP RfD= 0.003000 EPA RfD= 0.003000		Developmental tox- rabbit (core supplementary) q* not applicable. (Syn. Pentachloronitrobenzene).		WHO last reviewed 1977. HED complete 07/18/86. EPA verified 08/18/86. HED complete 03/17/87. EPA verified 04/15/87. On IRIS.	
Caswell #640		NOEL= 0.7500 mg/kg									
CAS No. 82-68-8		30.00 ppm									
A.I. CODE: 056502		LEL= 4,5000 mg/kg									
CFR No. 180.291		180.00 ppm									
		ONCO: C (HED)									
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)			
53001MA	BEEF-LEAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53003BA	SHEEP-MEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53003BB	SHEEP-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53005FA	SHEEP-FAT	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53005MA	SHEEP-LEAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006BA	PORK-MEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006BA	PORK-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006FA	PORK-FAT	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006KA	PORK-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006LA	PORK-LIVER	21 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006MA	PORK-LEAN	25 COOKED-NFS	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000000	0.000004		100.00	0.000004			
55008BA	TURKEY-BYP	21 COOKED-NFS	NO TOL.	N 0.000000	0.000100		100.00	0.000100			
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000000	0.000100		100.00	0.000100			
55008LA	TURKEY ORGAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005			
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005			
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005			
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000000	0.000005		100.00	0.000005			

CHEMICAL		STUDY TYPE		EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
PCNB (Quintozene)	2yr feeding- dog NOEL= 0.7500 mg/kg CAS No. 82-68-8 A.I. CODE: 056502 CFR No. 180.291	NOEL= 30.00 ppm LEL= 4.5000 mg/kg 180.00 ppm ONCO: C (HED)		Cholestatic hepatitis and secondary bile nephrosis. Insufficient data for as- sessment of oncogenicity.	PADI UF -->300 OPP RfD= 0.003000 EPA RfD= 0.003000	Developmental tox- rabbit (core supplementary) Q* not applicable. (Syn. Pentachloronitro- benzene).		WHO last reviewed 1977. HED complete 07/18/86. EPA verified 08/18/86. HED complete 03/17/87. EPA verified 04/15/87. 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)	
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55008MB	TURKEY+SKIN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55008NB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55008NC	TURKEY-UNSPEC	21 COOKED-NFS	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55013MA	POULTRY,OTHER	21 COOKED-NFS	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AA	EGGS-WHOLE	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	NO TOL.	N 0.000000	0.000005		100.00	0.000005	
55015MB	CHICKEN+SKIN	21 COOKED-NFS	NO TOL.	N 0.000000	0.000100		100.00	0.000100	
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000000	0.000100		100.00	0.000100	

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TABLE 10

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 99HCB

DATE: 03/09/93

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCB (3/9/93 run)	Caswell #99HCB	130 wk feeding- rat	NOEL=	hepatic centrilobular	basophilic chromogenesis	PLD	UF -->100	Chronic feeding-2 sp.	Reproductive-rat	HED complete 05/05/88	EPA verified 05/26/88
CAS No.	A.I. CODE:	0.0800 mg/kg	0.00 ppm			OPP Rfd= 0.000800	EPA Rfd= 0.000800	Developmental-3 sp.	Note: studies listed on		
CFR No. 180.		0.00 ppm	0.00 ppm			Q*: 1.70000		Rfd cover sheet have not	been Tox reviewed		
FOOD CODE		FOOD FORM		TOLERANCE		ANTICIPATED		AR STATISTIC TYPE		RES. VALUE USED	
				PET.#		RESIDUE (ppm)				IN TAS RUN (ppm)	
06002AA	BANANAS-UNSPEC	22	COOKED-FRESH-BAKED	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06002AB	BANANAS-FRESH	10	RAW-FRESH OR NFS	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06002AB	BANANAS-FRESH	21	COOKED-NFS	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06002AB	BANANAS-FRESH	31	COOKED-FRESH OR CANNED	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06002DA	BANANAS-DRIED	10	RAW-FRESH OR NFS	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06002DA	BANANAS-DRIED	21	COOKED-NFS	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06016AA	PLANTAINS	21	COOKED-NFS	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06016AA	PLANTAINS	23	COOKED-FRESH-BOILED	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
06016AA	PLANTAINS	25	COOKED-FRESH-FRIED	NOUSREG	A	0.002500	0.002500	100.00	0.002500	0.002500	0.002500
08048DA	PAPRIKA	00	NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AA	PEPPERS, SWEET	10	RAW-FRESH OR NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AA	PEPPERS, SWEET	21	COOKED-NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AB	CHILI PEPPERS	00	NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AD	PEPPERS-OTHER	10	RAW-FRESH OR NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AD	PEPPERS-OTHER	21	COOKED-NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11003AD	PEPPERS-OTHER	51	COOKED-CANNED	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11004AA	PIMIENTOS	10	RAW-FRESH OR NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11004AA	PIMIENTOS	21	COOKED-NFS	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11004AA	PIMIENTOS	31	COOKED-FRESH OR CANNED	INTERIM	P	0.002500	0.002500	10.00	0.002500	0.000250	0.000250
11005AA	TOMATOES-WHOLE	10	RAW-FRESH OR NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005AA	TOMATOES-WHOLE	21	COOKED-NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005AA	TOMATOES-WHOLE	31	COOKED-FRESH OR CANNED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005JA	TOMATOES-JUICE	10	RAW-FRESH OR NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005JA	TOMATOES-JUICE	21	COOKED-NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005JA	TOMATOES-JUICE	31	COOKED-FRESH OR CANNED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005RA	TOMATOES-PUREE	10	RAW-FRESH OR NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005RA	TOMATOES-PUREE	21	COOKED-NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005RA	TOMATOES-PUREE	31	COOKED-FRESH OR CANNED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005RA	TOMATOES-PUREE	32	COOKED-FRESH OR CANNED-BAKED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005RA	TOMATOES-PUREE	51	COOKED-CANNED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005TA	TOMATOES-PASTE	21	COOKED-NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005TA	TOMATOES-PASTE	22	COOKED-FRESH-BAKED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005TA	TOMATOES-PASTE	31	COOKED-FRESH OR CANNED	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005TA	TOMATOES-PASTE	51	COOKED-NFS	INTERIM	P	0.003000	0.003000	10.00	0.003000	0.000300	0.000300
11005UA	TOMATOES-CATSUP	21	COOKED-NFS	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13005AA	BROCCOLI	21	COOKED-NFS	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13005AA	BROCCOLI	31	COOKED-FRESH OR CANNED	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13005AA	BROCCOLI	63	COOKED-FRESH OR FROZEN-BOILED	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13006AA	BRUSSEL SPROUTS	21	COOKED-NFS	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13006AA	BRUSSEL SPROUTS	23	COOKED-FRESH-BOILED	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13007AA	CABBAGE	10	RAW-FRESH OR NFS	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020
13007AA	CABBAGE	11	RAW-FRESH-PICKLED, CORNED, OR CURED	INTERIM	P	0.001000	0.001000	2.00	0.001000	0.000020	0.000020

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PLD	UF		
HCB from PCNB (3/9/93 run)	130 wk feeding- rat	hepatic centrilobular	Opp Rfd= 0.000800	-->100	Chronic feeding-2 sp.	HED complete 05/05/88
Caswell #99HCB	NOEL= 0.0800 mg/kg	basophilic chromogenesis	EPA Rfd= 0.000800		Reproductin-rat	EPA verified 05/26/88
CAS No.	0.00 ppm				Developmental-3 sp.	
A.I. CODE:	LEL= 0.0000 mg/kg				Note: studies listed on	
CFR No. 180.	0.00 ppm				Rfd cover sheet have not	
	ONCO: Group B2		Q*: 1.70000		been tox reviewed	

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13007AA	CABBAGE	21	COOKED-NFS	INTERIM P 0.001000	0.001000	2.00	0.000020
13008AA	CAULIFLOWER	10	RAW-FRESH OR NFS	INTERIM P 0.001000	0.001000	2.00	0.000020
13008AA	CAULIFLOWER	21	COOKED-NFS	INTERIM P 0.001000	0.001000	2.00	0.000020
13009AA	COLLARDS	51	COOKED-CANNED	9E2249 P 0.005000	0.005000	2.00	0.000100
13009AA	COLLARDS	63	COOKED-FRESH OR FROZEN-BOILED	9E2249 P 0.005000	0.005000	2.00	0.000100
13010AA	CABBAGE-CHINESE	10	RAW-FRESH OR NFS	INTERIM P 0.001000	0.001000	2.00	0.000020
13010AA	CABBAGE-CHINESE	21	COOKED-NFS	INTERIM P 0.001000	0.001000	2.00	0.000020
13011AA	KALE	63	COOKED-FRESH OR FROZEN-BOILED	9E2249 P 0.005000	0.005000	2.00	0.000100
13021AA	MUSTARD GREENS	21	COOKED-NFS	9E2249 P 0.005000	0.005000	2.00	0.000100
13021AA	MUSTARD GREENS	63	COOKED-FRESH OR FROZEN-BOILED	9E2249 P 0.005000	0.005000	2.00	0.000100
14007AA	GARLIC	10	RAW-FRESH OR NFS	INTERIM P 0.007000	0.007000	10.00	0.000700
14007AA	GARLIC	21	COOKED-NFS	INTERIM P 0.007000	0.007000	10.00	0.000700
14007AA	GARLIC	32	COOKED-FRESH OR CANNED-BAKED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AA	POTATOC(WH)-WHOLE	10	RAW-FRESH OR NFS	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AA	POTATOC(WH)-WHOLE	21	COOKED-NFS	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AA	POTATOC(WH)-WHOLE	22	COOKED-FRESH-BAKED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AB	POTATOC(WH)-UNSP	22	COOKED-FRESH-BAKED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AC	POTATOC(WH)-PULP	21	COOKED-NFS	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AC	POTATOC(WH)-PULP	22	COOKED-FRESH-BAKED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AC	POTATOC(WH)-PULP	23	COOKED-FRESH-BOILED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013AC	POTATOC(WH)-PULP	25	COOKED-FRESH-FRIED	INTERIM P 0.007000	0.007000	1.00	0.000070
14013DA	POTATOC(WH)-DRY	10	RAW-FRESH OR NFS	INTERIM P 0.007000	0.007000C	1.00	0.000070
14013DA	POTATOC(WH)-DRY	31	COOKED-FRESH OR CANNED	INTERIM P 0.007000	0.007000C	1.00	0.000070
14013HA	POTATOC(WH)-PEEL	22	COOKED-FRESH-BAKED	INTERIM P 0.007000	0.007000	1.00	0.000070
15001AA	BEANS-DRY-KIDNEY	21	COOKED-NFS	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AC	BEANS-DRY-LIMA	21	COOKED-NFS	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AD	BEANS-DRY-NAVY	21	COOKED-NFS	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AD	BEANS-DRY-NAVY	31	COOKED-FRESH OR CANNED	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AE	BEANS-DRY-OTHER	21	COOKED-NFS	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AE	BEANS-DRY-OTHER	25	COOKED-FRESH-FRIED	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AE	BEANS-DRY-OTHER	31	COOKED-FRESH OR CANNED	INTERIM P 0.002500	0.002500	5.00	0.000125
15001AF	BEANS-DRY-PINTO	21	COOKED-NFS	INTERIM P 0.002500	0.002500	5.00	0.000125
15002AA	BEANS-SUCC-LIMA	10	RAW-FRESH OR NFS	INTERIM P 0.003000	0.003000	5.00	0.000150
15002AA	BEANS-SUCC-LIMA	21	COOKED-NFS	INTERIM P 0.003000	0.003000	5.00	0.000150
15003AA	BEANS-SUCC-GREEN	21	COOKED-NFS	INTERIM P 0.004000	0.004000	5.00	0.000200
15003AB	BEANS-SUCC-OTH	10	RAW-FRESH OR NFS	INTERIM P 0.004000	0.004000	5.00	0.000200
15003AB	BEANS-SUCC-OTH	21	COOKED-NFS	INTERIM P 0.004000	0.004000	5.00	0.000200
15003AC	BEANS-SUCC-WAX	21	COOKED-NFS	INTERIM P 0.004000	0.004000	5.00	0.000200

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
HCB from PCB (3/9/93 run) Caswell #99HCB CAS No. A.I. CODE: CFR No. 180.	130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2	hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP Rfd= 0.000800 EPA Rfd= 0.000800 Q*: 1.70000	Chronic feeding-2 sp. Reproductive-rat Developmental-3 sp. Note: studies listed on Rfd cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	INTERIM	P 0.004700	0.004700		5.00	0.000235
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	INTERIM	P 0.004700	0.004700		5.00	0.000235
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	INTERIM	P 0.004700	0.004700		5.00	0.000235
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15013AA	MUNG BEANS	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.002500	0.002500		5.00	0.000125
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.004000	0.004000		5.00	0.000200
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15027AA	BEANS-UNSPEC	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		5.00	0.000200
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.002500	0.002500		5.00	0.000125
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.004000	0.004000		5.00	0.000200
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15032AA	BEANS-DRY	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.002500	0.002500		5.00	0.000125
270030A	COTTONSEED-OIL	18 PROCESSED OIL	9F0754	P 0.100000	0.002500		10.00	0.000250
270030A	COTTONSEED-MEAL	18 PROCESSED OIL	9F0754	P 0.100000	0.002500		10.00	0.000250
270070A	PEANUTS-OIL	18 PROCESSED OIL	INTERIM	P 0.004700	0.004700		5.00	0.000235
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000SA	MILK SUG (LACT)	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001DA	BEEF-DRIED	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001FA	BEEF-FAT	21 COOKED-NFS	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000140	0.000140		100.00	0.000140
53001KA	BEEF-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PLD	UF		
HCB from PCBs (3/9/93 run)	130 wk feeding- rat	hepatic centrilobular	0.0800 mg/kg	0.000800	Chronic feeding-2 sp.	HED complete 05/05/88
Caswell #99HCB	NOEL=	basophilic chromogenesis	0.00 ppm	0.000800	Reproduction-rat	EPA verified 05/26/88
CAS No.	LEL=		0.0000 mg/kg		Developmental-3 sp.	
A.I. CODE:	ONCO: Group B2			q*: 1.70000	Note: studies listed on RfD cover sheet have not been Tox reviewed	
CFR No. 180.						

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001MA	BEEF-LEAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002NA	GOAT-LEAN	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53002NA	GOAT-LEAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003BA	SHEEP-MEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003BB	SHEEP-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003FA	SHEEP-FAT	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003KA	SHEEP-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003NA	SHEEP-LEAN	21 COOKED-FRESH OR CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53003BA	PORK-MEAT BYP	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006FA	PORK-FAT	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006KA	PORK-KIDNEY	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006LA	PORK-LIVER	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006NA	PORK-LEAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006NA	PORK-LEAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53006NA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008BA	TURKEY-BYP	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008LA	TURKEY ORGAN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008NA	TURKEY W/O SKIN	21 COOKED-NFS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53008NA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	NO TOL.	N 0.000010	0.000010		100.00	0.000010

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TABLE 1C

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 99PCB

DATE: 03/16/93

PAGE: 1

CHEMICAL			STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.			130 wk feeding- rat NOEL= 0.0800 mg/kg LEL= 0.0000 mg/kg ONCO: Group B2		hepatic centrilobular basophilic chromogenesis		PLD	UF	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88		
							OPP RfD= 0.000800 EPA RfD= 0.000800					
							q*: 1.70000					
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)				
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06002AB	BANANAS-FRESH	21 COOKED-NFS	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06002DA	BANANAS-DRIED	21 COOKED-NFS	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06016AA	PLANTAINS	21 COOKED-NFS	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	NOUSREG	A 0.010000	0.010000		100.00	0.010000				
08048DA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AA	PEPPERS, SWEET	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AD	PEPPERS-OTHER	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11004AA	PIMIENTOS	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		10.00	0.000250				
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	INTERIM	P 0.002000	0.002500		10.00	0.000250				
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005JA	TOMATOES-JUICE	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005RA	TOMATOES-PUREE	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005TA	TOMATOES-PASTE	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	INTERIM	P 0.004000	0.004000		10.00	0.000400				
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	INTERIM	P 0.004000	0.004000		10.00	0.000400				
13005AA	BROCCOLI	21 COOKED-NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13007AA	CABBAGE	10 RAW-FRESH OR NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020				
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	INTERIM	P 0.001000	0.001000		2.00	0.000020				

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ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 99PCB

DATE: 03/16/93

PAGE: 2

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.		130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis		PLD	UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 Q*: 1.70000	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88	
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)			
13007AA	CABBAGE	21 COOKED-NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020			
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020			
13008AA	CAULIFLOWER	21 COOKED-NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020			
13009AA	COLLARDS	51 COOKED-CANNED	9E2249	P 0.005000	0.005000		2.00	0.000100			
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	9E2249	P 0.005000	0.005000		2.00	0.000100			
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020			
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	INTERIM	P 0.001000	0.001000		2.00	0.000020			
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	9E2249	P 0.005000	0.005000		2.00	0.000100			
13021AA	MUSTARD GREENS	21 COOKED-NFS	9E2249	P 0.005000	0.005000		2.00	0.000100			
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	INTERIM	P 0.028000	0.028000		10.00	0.002800			
14007AA	GARLIC	10 RAW-FRESH OR NFS	INTERIM	P 0.028000	0.028000		10.00	0.002800			
14007AA	GARLIC	21 COOKED-NFS	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	INTERIM	P 0.028000	0.028000		1.00	0.000280			
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	INTERIM	P 0.028000	0.028000C		1.00	0.000280			
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	INTERIM	P 0.028000	0.028000C		1.00	0.000280			
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.028000	0.028000C		1.00	0.000280			
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	INTERIM	P 0.028000	0.028000C		1.00	0.000280			
15001AA	BEANS-DRY-GRT NO	00 NOT SPECIFIED (NO CONSUMPTION)	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	INTERIM	P 0.002500	0.002500		5.00	0.000125			

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.	130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2	hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP Rfd= 0.000800 EPA Rfd= 0.000800 Q*: 1.70000	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on Rfd cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15006AA	PEANUTS-WHOLE	INTERIM	P 0.026000	0.026000		5.00	0.001300
15006AA	PEANUTS-WHOLE	INTERIM	P 0.026000	0.026000		5.00	0.001300
15006AA	PEANUTS-WHOLE	INTERIM	P 0.026000	0.026000		5.00	0.001300
15013AA	MUNG BEANS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15013AA	MUNG BEANS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15013AA	MUNG BEANS	INTERIM	P 0.002500	0.002500		5.00	0.000125
15022AA	BEANS-DRY-BROAD	INTERIM	P 0.002500	0.002500		5.00	0.000125
15022AB	BEANS-SUCC-BROAD	INTERIM	P 0.002500	0.002500		5.00	0.000125
15023AA	BEANS-DRY-PIGEON	INTERIM	P 0.002500	0.002500		5.00	0.000125
15027AA	BEANS-UNSPEC	INTERIM	P 0.002500	0.002500		5.00	0.000125
15030AA	BEANS-DRY-HYAC	INTERIM	P 0.002500	0.002500		5.00	0.000125
15030AB	BEANS-SUCC-HYAC	INTERIM	P 0.002500	0.002500		5.00	0.000125
15031AA	BLKEYE PEAS-DRY	INTERIM	P 0.002500	0.002500		5.00	0.000125
15032AA	BEANS-DRY	INTERIM	P 0.002500	0.002500		5.00	0.000125
15032AA	BEANS-DRY	INTERIM	P 0.002500	0.002500		5.00	0.000125
270030A	COTTONSEED-OIL	9F0754	P 0.100000	0.002500		10.00	0.000250
270030A	COTTONSEED-OIL	9F0754	P 0.100000	0.002500		10.00	0.000250
270070A	PEANUTS-OIL	INTERIM	P 0.026000	0.026000		5.00	0.001300
50000DB	MILK-NON-FAT SOL	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000DB	MILK-NON-FAT SOL	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000DB	MILK-NON-FAT SOL	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000FA	MILK-FAT SOLIDS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000FA	MILK-FAT SOLIDS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000FA	MILK-FAT SOLIDS	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000SA	MILK SUG (LACT)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
50000SA	MILK SUG (LACT)	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001BA	BEEF-MEAT BYP	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001BA	BEEF-MEAT BYP	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001BB	BEEF-OTH ORGAN	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001BB	BEEF-OTH ORGAN	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001DA	BEEF-DRIED	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001FA	BEEF-FAT	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001FA	BEEF-FAT	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001FA	BEEF-FAT	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001FA	BEEF-FAT	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001FA	BEEF-FAT	NO TOL.	N 0.000030	0.000030		100.00	0.000030
53001KA	BEEF-KIDNEY	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001LA	BEEF-LIVER	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001LA	BEEF-LIVER	NO TOL.	N 0.000010	0.000010		100.00	0.000010
53001MA	BEEF-LEAN	NO TOL.	N 0.000030	0.000030		100.00	0.000030

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.	130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2	hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 Q*: 1.70000	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008MA	TURKEY W/O SKIN	62	0.000010	0.000010		100.00	0.000010
55008MB	TURKEY+SKIN	21	0.000010	0.000200		100.00	0.000200
55008MB	TURKEY+SKIN	25	0.000010	0.000200		100.00	0.000200
55008MC	TURKEY-UNSPEC	21	0.000010	0.000200		100.00	0.000200
55013BA	POULTRY,OTH-BYP	00	0.000010	0.000200		100.00	0.000200
55013LA	POULTRY,ORGAN	25	0.000010	0.000010		100.00	0.000010
55013MA	POULTRY,OTHER	21	0.000010	0.000200		100.00	0.000200
55014AA	EGGS-WHOLE	10	0.000010	0.000010		100.00	0.000010
55014AA	EGGS-WHOLE	21	0.000010	0.000010		100.00	0.000010
55014AA	EGGS-WHOLE	22	0.000010	0.000010		100.00	0.000010
55014AA	EGGS-WHOLE	23	0.000010	0.000010		100.00	0.000010
55014AA	EGGS-WHOLE	25	0.000010	0.000010		100.00	0.000010
55014AB	EGGS-WHITE ONLY	10	0.000010	0.000010		100.00	0.000010
55014AB	EGGS-WHITE ONLY	21	0.000010	0.000010		100.00	0.000010
55014AB	EGGS-WHITE ONLY	22	0.000010	0.000010		100.00	0.000010
55014AB	EGGS-WHITE ONLY	62	0.000010	0.000010		100.00	0.000010
55014AC	EGGS-YOLK ONLY	81	0.000010	0.000010		100.00	0.000010
55014AC	EGGS-YOLK ONLY	10	0.000010	0.000010		100.00	0.000010
55014AC	EGGS-YOLK ONLY	21	0.000010	0.000010		100.00	0.000010
55014AC	EGGS-YOLK ONLY	25	0.000010	0.000010		100.00	0.000010
55014AC	EGGS-YOLK ONLY	31	0.000010	0.000010		100.00	0.000010
55015BA	CHICKEN-BYP	00	0.000010	0.000200		100.00	0.000200
55015LA	CHICKEN-ORGAN	21	0.000010	0.000010		100.00	0.000010
55015LA	CHICKEN-ORGAN	25	0.000010	0.000010		100.00	0.000010
55015LA	CHICKEN-W/O SKIN	21	0.000010	0.000010		100.00	0.000010
55015MA	CHICKEN-W/O SKIN	22	0.000010	0.000010		100.00	0.000010
55015MA	CHICKEN-W/O SKIN	25	0.000010	0.000010		100.00	0.000010
55015MA	CHICKEN-W/O SKIN	31	0.000010	0.000010		100.00	0.000010
55015MA	CHICKEN-W/O SKIN	53	0.000010	0.000010		100.00	0.000010
55015MB	CHICKEN+SKIN	21	0.000010	0.000200		100.00	0.000200
55015MB	CHICKEN+SKIN	25	0.000010	0.000200		100.00	0.000200

TABLE 2A

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/09/93

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
PCNB (quintozene)	2yr feeding- dog	NOEL= 0.7500 mg/kg 30.00 ppm LEL= 4.5000 mg/kg 180.00 ppm ONCO: C (HED)	Cholestatic hepatitis and secondary bile nephrosis. Insufficient data for assessment of oncogenicity.	PADI UF -->300 OPP RfD= 0.003000 EPA RfD= 0.003000	Developmental tox- rabbit (core supplementary) q* not applicable. (Syn. Pentachloronitrobenzene).	WHO last reviewed 1977. HED complete 07/18/86. EPA verified 08/18/86. HED complete 03/17/87. EPA verified 04/15/87. On IRIS.	
POPULATION SUBGROUP		TOTAL TMRC (MG/KG BODY WEIGHT/DAY)					
		CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	ARC	%RFD
U.S. POPULATION - 48 STATES		0.000338	0.000361	12.021867	0.769100	0.000010	0.34150
U.S. POPULATION - SPRING SEASON		0.000328	0.000350	11.663667	0.728167	0.000010	0.32920
U.S. POPULATION - SUMMER SEASON		0.000350	0.000373	12.438367	0.786433	0.000011	0.35250
U.S. POPULATION - FALL SEASON		0.000336	0.000359	11.982100	0.775867	0.000010	0.34233
U.S. POPULATION - WINTER SEASON		0.000334	0.000358	11.919800	0.786133	0.000010	0.34170
NORTHEAST REGION		0.000322	0.000344	11.475467	0.748467	0.000010	0.33240
NORTH CENTRAL REGION		0.000342	0.000363	12.110833	0.707633	0.000010	0.33270
SOUTHERN REGION		0.000343	0.000363	12.098000	0.674000	0.000009	0.31427
WESTERN REGION		0.000340	0.000371	12.377767	1.052300	0.000012	0.41310
HISPANICS		0.000329	0.000368	12.279867	1.326233	0.000014	0.45230
NON-HISPANIC WHITES		0.000340	0.000363	12.096833	0.766633	0.000010	0.34667
NON-HISPANIC BLACKS		0.000325	0.000339	11.306800	0.481767	0.000007	0.24797
NON-HISPANIC OTHERS		0.000310	0.000344	11.462933	1.122833	0.000012	0.40673
NURSING INFANTS (< 1 YEAR OLD)		0.000095	0.000187	6.234967	3.072600	0.000025	0.82410
NON-NURSING INFANTS (< 1 YEAR OLD)		0.000310	0.000418	13.944200	3.612533	0.000032	1.07040
FEMALES (13+ YEARS, PREGNANT)		0.000252	0.000264	8.811333	0.426433	0.000006	0.21210
FEMALES 13+ YEARS, NURSING		0.000291	0.000309	10.309467	0.604400	0.000008	0.28243
CHILDREN (1-6 YEARS OLD)		0.000712	0.000785	26.182200	2.438167	0.000029	0.96107
CHILDREN (7-12 YEARS OLD)		0.000543	0.000573	19.096967	0.995133	0.000015	0.51040
MALES (13-19 YEARS OLD)		0.000355	0.000370	12.342033	0.517067	0.000009	0.28850
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)		0.000288	0.000301	10.048400	0.441500	0.000007	0.23450
MALES (20 YEARS AND OLDER)		0.000269	0.000284	9.468167	0.485233	0.000007	0.23410
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)		0.000241	0.000256	8.534567	0.497633	0.000007	0.21960

*Current TMRC does not include new or pending tolerances.

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

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TOLERANCE ASSESSMENT SUMMARY FOR PCNB (Quintozene)
USING ANTICIPATED RESIDUES
CASWELL #640

DATE: 03/09/93

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000004	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.146	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.003	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000004	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.149	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000006	MG/KG/DAY
THIS ARC WILL OCCUPY	0.192	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000010	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	0.342	% OF THE ADI.

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000005	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.156	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.011	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000005	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.167	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000027	MG/KG/DAY
THIS ARC WILL OCCUPY	0.903	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000032	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	1.070	% OF THE ADI.

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000010	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.344	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.008	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000011	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.352	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000018	MG/KG/DAY
THIS ARC WILL OCCUPY	0.610	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000029	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	0.961	% OF THE ADI.

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/09/93

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
HCB from PCNB (3/9/93 run)	130 wk feeding- rat	hepatic centrilobular basophilic chromogenesis	PLD	UF -->100	Chronic feeding-2 sp.	Reproductin-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88	
Caswell #99HCB	NOEL=							OPP RfD= 0.000800
CAS No.	0.00 ppm							EPA RfD= 0.000800
A.I. CODE:	LEL=							
CFR No. 180.	0.00 ppm	ONCO: Group B2	q*: 1.70000					
TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES				
CURRENT TMRC*		NEW TMRC**		ARC	%RFD			
<u>POPULATION SUBGROUP</u>								
U.S. POPULATION - 48 STATES								
U.S. POPULATION - SPRING SEASON		0.000013	0.000014	1.760875	0.197750	0.000002	0.25100	
U.S. POPULATION - SUMMER SEASON		0.000012	0.000014	1.698625	0.193875	0.000002	0.24425	
U.S. POPULATION - FALL SEASON		0.000013	0.000014	1.765750	0.198250	0.000002	0.25563	
U.S. POPULATION - WINTER SEASON		0.000013	0.000014	1.786125	0.200500	0.000002	0.25200	
		0.000013	0.000014	1.785250	0.199125	0.000002	0.25075	
NORTHEAST REGION								
NORTH CENTRAL REGION		0.000012	0.000013	1.648125	0.195000	0.000002	0.24588	
SOUTHERN REGION		0.000013	0.000015	1.813750	0.178125	0.000002	0.23000	
WESTERN REGION		0.000013	0.000015	1.836125	0.198750	0.000002	0.25225	
		0.000012	0.000014	1.692500	0.228375	0.000002	0.28325	
HISPANICS								
NON-HISPANIC WHITES		0.000013	0.000016	1.938750	0.295500	0.000003	0.35750	
NON-HISPANIC BLACKS		0.000012	0.000014	1.748875	0.187625	0.000002	0.24075	
NON-HISPANIC OTHERS		0.000010	0.000012	1.512875	0.210250	0.000002	0.25725	
					0.267500	0.000003	0.31563	
NURSING INFANTS (< 1 YEAR OLD)								
NON-NURSING INFANTS (< 1 YEAR OLD)		0.000004	0.000006	0.807625	0.366250	0.000003	0.38338	
FEMALES (13+ YEARS, PREGNANT)		0.000014	0.000018	2.261250	0.549000	0.000005	0.60600	
FEMALES 13+ YEARS, NURSING		0.000009	0.000010	1.235375	0.124125	0.000001	0.16525	
CHILDREN (1-6 YEARS OLD)		0.000010	0.000011	1.381500	0.161750	0.000002	0.20825	
CHILDREN (7-12 YEARS OLD)		0.000024	0.000028	3.519875	0.505750	0.000005	0.60363	
MALES (13-19 YEARS OLD)		0.000018	0.000021	2.569125	0.262750	0.000003	0.33888	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)		0.000013	0.000015	1.856125	0.173625	0.000002	0.22863	
MALES (20 YEARS AND OLDER)		0.000011	0.000012	1.545000	0.144750	0.000002	0.19100	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)		0.000011	0.000012	1.474125	0.150875	0.000002	0.19438	
		0.000009	0.000010	1.310500	0.139500	0.000001	0.18075	

*Current TMRC does not include new or pending tolerances.

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

TOLERANCE ASSESSMENT SUMMARY FOR HCB from PCNB (3/9/93 run)
 USING ANTICIPATED RESIDUES
 CASWELL #99HCB

DATE: 03/09/93

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000000	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.053	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.126	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000001	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.179	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000001	MG/KG/DAY
THIS ARC WILL OCCUPY	0.072	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000002	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	0.251	% OF THE ADI.

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000000	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.057	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000002	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.210	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000002	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.267	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000003	MG/KG/DAY
THIS ARC WILL OCCUPY	0.339	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000005	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	0.606	% OF THE ADI.

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000001	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.098	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000002	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.277	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000003	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.375	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000002	MG/KG/DAY
THIS ARC WILL OCCUPY	0.229	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000005	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	0.604	% OF THE ADI.

TABLE 3A

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/09/93

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
HCB from PCNB (3/9/93 run) Caswell #99HCB CAS No. A.I. CODE: CFR No. 180.	130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis	PLD	UF --> 100	Chronic feeding-2 sp.	HED complete 05/05/88
				OPP RfD=	0.000800	Reproductin-rat	EPA verified 05/26/88
				EPA RfD=	0.000800	Developmental-3 sp.	
				Note: studies listed on RfD cover sheet have not been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMR	ONCO RISK	ANTICIPATED		ARC	ONCO RISK
			TYPE	(UG/KG/DAY)			RESIDUE (PPM)	(UG/KG/DAY)		
06002AA	BANANAS-UNSPECIFIED	0.002	A	0.000008	0.001	0.00000001360	0.00250	0.000008	0.001	0.00000001360
	22 COOKED-FRESH-BAKED									
06002AB	BANANAS-FRESH	0.002	A	0.000560	0.070	0.000000095200	0.00250	0.000494	0.062	0.00000083980
	10 RAW-FRESH OR NFS						0.00250	0.000013	0.002	0.00000002210
	21 COOKED-NFS						0.00250	0.000052	0.007	0.00000008840
	31 COOKED-FRESH OR CANNED									
06002DA	BANANAS-DRIED	0.002	A	0.000004	0.001	0.000000000680	0.00250	0.000001	0.000	0.00000000170
	10 RAW-FRESH OR NFS						0.00250	0.000003	0.000	0.00000000510
	21 COOKED-NFS									
06016AA	PLANTAINS	0.002	A	0.000004	0.001	0.000000000680	0.00250	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00250	0.000002	0.000	0.00000000340
	23 COOKED-FRESH-BOILED									
270030A	COTTONSEED-OIL	0.100	P	0.000051	0.006	0.000000008670	0.00025	0.000005	0.001	0.00000000850
	18 PROCESSED OIL									
27003WA	COTTONSEED-MEAL	0.100	P	0.000000	0.000	0.000000000000	0.00025	0.000000	0.000	0.00000000000
	18 PROCESSED OIL									
CROP GROUP TOTALS FOR UNSPECIFIED:										
				0.000627	0.078	0.00000106590		0.000580	0.073	0.00000098600
14013AA	POTATOES(WHITE)-WHOLE	0.007	P	0.002380	0.298	0.000000404600	0.00007	0.000003	0.000	0.00000000510
	10 RAW-FRESH OR NFS						0.00007	0.000010	0.001	0.00000001700
	21 COOKED-NFS						0.00007	0.000010	0.001	0.00000001700
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.007	P	0.000001	0.000	0.000000000170	0.00007	0.000000	0.000	0.00000000000
	22 COOKED-FRESH-BAKED									
14013AC	POTATOES(WHITE)-PEELED	0.007	P	0.005490	0.686	0.000000933300	0.00007	0.000005	0.001	0.00000000850
	21 COOKED-NFS						0.00007	0.000003	0.000	0.00000000510
	22 COOKED-FRESH-BAKED						0.00007	0.000030	0.004	0.000000005100
	23 COOKED-FRESH-BOILED						0.00007	0.000017	0.002	0.000000002890
	25 COOKED-FRESH-FRIED									
14013DA	POTATOES(WHITE)-DRY	0.007	P	0.000009	0.001	0.000000001530	0.00007	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS						0.00007	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00007	0.000000	0.000	0.00000000000
14013HA	POTATOES(WHITE)-PEEL ONLY	0.007	P	0.000000	0.000	0.000000000000	0.00007	0.000000	0.000	0.00000000000
	22 COOKED-FRESH-BAKED									
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:										
				0.007880	0.985	0.00001339600		0.000078	0.010	0.00000013260

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/09/93

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCNB (3/9/93 run)		130 wk feeding- rat	hepatic centrilobular		PLD UF -->100	Chronic feeding-2 sp.		HED complete 05/05/88		
Caswell #99HCB		NOEL= 0.0800 mg/kg	basophilic chromogenesis		OPP RfD= 0.000800	Reproductin-rat		EPA verified 05/26/88		
CAS No.		0.00 ppm			EPA RfD= 0.000800	Developmental-3 sp.				
A.I. CODE:		LEL= 0.0000 mg/kg				Note: studies listed on				
CFR No. 180.		0.00 ppm				RfD cover sheet have not				
		ONCO: Group B2			q*: 1.70000	been Tox reviewed				
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES										
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
			TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
14007AA	GARLIC	0.007	P	0.000005	0.001	0.000000000850	0.00070	0.000000	0.000	0.000000000000
	10 RAW-FRESH OR NFS						0.00070	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00070	0.000000	0.000	0.000000000000
	32 COOKED-FRESH OR CANNED-BAKED						0.00070	0.000000	0.000	0.000000000000
CROP GROUP TOTALS FOR BULB VEGETABLES:										
				0.000005	0.001	0.000000000850		0.000000	0.000	0.000000000000
13005AA	BROCCOLI	0.001	P	0.000049	0.006	0.000000008330	0.00002	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00002	0.000001	0.000	0.00000000170
	31 COOKED-FRESH OR CANNED						0.00002	0.000000	0.000	0.000000000000
	63 COOKED-FRESH OR FROZEN-BOILED						0.00002	0.000000	0.000	0.000000000000
13006AA	BRUSSEL SPROUTS	0.001	P	0.000007	0.001	0.000000001190	0.00002	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00002	0.000000	0.000	0.000000000000
	23 COOKED-FRESH-BOILED						0.00002	0.000000	0.000	0.000000000000
13007AA	CABBAGE-GREEN AND RED	0.001	P	0.000094	0.012	0.000000015980	0.00002	0.000001	0.000	0.00000000170
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000
	11 RAW-FRESH-PICKLED ,CORNED ,OR CURED						0.00002	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00002	0.000001	0.000	0.00000000170
13008AA	CAULIFLOWER	0.001	P	0.000016	0.002	0.000000002720	0.00002	0.000000	0.000	0.000000000000
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00002	0.000000	0.000	0.000000000000
13009AA	COLLARDS	0.005	P	0.000094	0.012	0.000000015980	0.00010	0.000000	0.000	0.000000000000
	51 COOKED-CANNED						0.00010	0.000002	0.000	0.000000000340
	63 COOKED-FRESH OR FROZEN-BOILED						0.00010	0.000000	0.000	0.000000000000
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	0.001	P	0.000005	0.001	0.000000000850	0.00002	0.000000	0.000	0.000000000000
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00010	0.000000	0.000	0.000000000000
13011AA	KALE	0.005	P	0.000008	0.001	0.000000001360	0.00010	0.000000	0.000	0.000000000000
	63 COOKED-FRESH OR FROZEN-BOILED						0.00010	0.000000	0.000	0.000000000000
13021AA	MUSTARD GREENS	0.005	P	0.000073	0.009	0.000000012410	0.00010	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00010	0.000001	0.000	0.000000000170
	63 COOKED-FRESH OR FROZEN-BOILED						0.00010	0.000000	0.000	0.000000000000
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:										
				0.000346	0.043	0.00000058820		0.000006	0.001	0.00000001020

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCNB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99HCB		NOEL= 0.0800 mg/kg		basophilic chromogenesis		OPP RfD= 0.000800		Reproductin-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA RfD= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm						RfD cover sheet have not			
		ONCO: Group B2				Q* = 1.70000		been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMR	TMR	REFERENCE DOSES		TMR	ANTICIPATED		ARC
			TYPE	(UG/KG/DAY)			%RFD	ONCO RISK		RESIDUE (PPM)	(UG/KG/DAY)	
15001AA	BEANS-DRY-GREAT NORTHERN	0.002	P	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15001AB	00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000034	0.004	0.000000005780	0.004	0.000000005780	0.00013	0.000001	0.000	0.00000000170
15001AC	BEANS-DRY-KIDNEY	0.002	P	0.000020	0.003	0.000000003400	0.003	0.000000003400	0.00013	0.000000	0.000	0.000000000000
15001AD	21 COOKED-NFS	0.002	P	0.000094	0.012	0.00000015980	0.012	0.00000015980	0.00013	0.000001	0.000	0.00000000170
15001AE	31 COOKED-FRESH OR CANNED	0.002	P	0.000100	0.013	0.00000017000	0.013	0.00000017000	0.00013	0.000004	0.001	0.00000000680
15001AF	BEANS-DRY-PINTO	0.002	P	0.000091	0.011	0.00000015470	0.011	0.00000015470	0.00013	0.000002	0.000	0.00000000340
15002AA	BEANS-SUCCULENT-LIMA	0.003	P	0.000077	0.010	0.00000013090	0.010	0.00000013090	0.00015	0.000000	0.000	0.00000000170
15003AA	10 RAW-FRESH OR NFS	0.004	P	0.000800	0.100	0.00000136000	0.100	0.00000136000	0.00015	0.000004	0.001	0.00000000680
15003AB	21 COOKED-NFS	0.004	P	0.000106	0.013	0.00000018020	0.013	0.00000018020	0.00020	0.000040	0.005	0.00000006800
15003AC	BEANS-SUCCULENT-OTHER	0.004	P	0.000022	0.003	0.00000003740	0.003	0.00000003740	0.00020	0.000001	0.000	0.00000000170
15006AA	PEANUTS-WHOLE + SKIN	0.004	P	0.000327	0.041	0.00000055590	0.041	0.00000055590	0.00024	0.000000	0.000	0.000000000000
15013AA	MUNG BEANS (SPROUTS)	0.002	P	0.000017	0.002	0.00000002890	0.002	0.00000002890	0.00024	0.000015	0.002	0.00000002550
15022AA	BEANS-DRY-BROADBEANS(MATURE SEED)	0.002	P	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00024	0.000001	0.000	0.00000000170
15022AB	00 NOT SPECIFIED (NO CONSUMPTION)	0.004	P	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00013	0.000001	0.000	0.00000000170
15023AA	BEANS-SUCCULENT-BROADBEANS(IMMAT. SEED)	0.002	P	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15027AA	BEANS-DRY-PIGEON BEANS	0.004	P	0.000021	0.003	0.00000003570	0.003	0.00000003570	0.00020	0.000000	0.000	0.000000000000
	21 COOKED-NFS								0.00020	0.000001	0.000	0.00000000170
	BEANS-UNSPECIFIED											

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
HCB from PCNB (3/9/93 run) Caswell #99HCB CAS No. A.I. CODE: CFR No. 180.	130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2	hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 Q*: 1.70000	Chronic feeding-2 sp. Reproductin-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
		TYPE (UG/KG/DAY)	TMR	TYPE (UG/KG/DAY)	TMR	%RFD	ONCO RISK	RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK
15030AA	BEANS-DRY-HYACINTH(MATURE SEEDS)	0.002	P	0.000000	0.000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15030AB	00 NOT SPECIFIED (NO CONSUMPTION)	0.004	P	0.000000	0.000	0.000	0.000000000000	0.00020	0.000000	0.000	0.000000000000
15031AA	BEANS-SUCCULENT-HYACINTH(YOUNG PODS)	0.002	P	0.000006	0.001	0.001	0.00000001020	0.00013	0.000000	0.000	0.000000000000
15032AA	BEANS-DRY-BLACKEYE PEAS(COMPEAS)	0.002	P	0.000001	0.000	0.000	0.000000000170	0.00013	0.000000	0.000	0.000000000000
270070A	PEANUTS-OIL	0.004	P	0.000025	0.003	0.003	0.00000004250	0.00024	0.000001	0.000	0.00000000170
CROP GROUP TOTALS FOR LEGUME VEGETABLES:											
11003AA	PEPPERS, SWEET, GARDEN	0.002	P	0.000054	0.007	0.007	0.00000009180	0.00025	0.000002	0.000	0.00000000340
11003AB	10 RAW-FRESH OR NFS	0.002	P	0.000010	0.001	0.001	0.00000001700	0.00025	0.000004	0.001	0.00000000680
11003AD	21 COOKED-NFS	0.002	P	0.000011	0.001	0.001	0.00000001870	0.00025	0.000001	0.000	0.00000000170
11004AA	PEPPERS-OTHER	0.002	P	0.000005	0.001	0.001	0.00000000850	0.00025	0.000000	0.000	0.00000000000
11005AA	10 RAW-FRESH OR NFS	0.003	P	0.001476	0.185	0.185	0.000000250920	0.00030	0.000075	0.009	0.00000012750
11005JA	21 COOKED-NFS	0.003	P	0.000165	0.021	0.021	0.000000028050	0.00030	0.000058	0.007	0.00000009860
11005RA	31 COOKED-FRESH OR CANNED	0.003	P	0.000511	0.064	0.064	0.000000086870	0.00030	0.000014	0.002	0.00000002380
11005TA	TOMATOES-PASTE	0.003	P	0.000118	0.015	0.015	0.000000020060	0.00030	0.000001	0.000	0.00000000170
	21 COOKED-NFS							0.00030	0.000016	0.002	0.00000002720
	10 RAW-FRESH OR NFS							0.00030	0.000000	0.000	0.00000000000
	21 COOKED-NFS							0.00030	0.000029	0.004	0.00000004930
	31 COOKED-FRESH OR CANNED							0.00030	0.000005	0.001	0.00000000850
	10 RAW-FRESH OR NFS							0.00030	0.000007	0.001	0.00000001190
	21 COOKED-NFS							0.00030	0.000011	0.001	0.00000001870
	31 COOKED-FRESH OR CANNED							0.00030	0.000008	0.001	0.00000001360

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCNB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99HCB		NOEL= 0.0800 mg/kg		basophilic chromogenesis		OPP RfD= 0.000800		Reproductin-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA RfD= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm						RfD cover sheet have not			
		ONCO: Group B2				q*: 1.70000		been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMRD (UG/KG/DAY)	%RFD	TMRD ONCO RISK		ANTICIPATED		%RFD	ONCO RISK
			TYPE	PPM			TYPE	PPM	RESIDUE (PPM)	ARC (UG/KG/DAY)		
11005UA	22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED TOMATOES-CATSUP 21 COOKED-NFS	0.003	P		0.000126	0.016	0.000000021420		0.00030	0.000002	0.000	0.00000000340
									0.00030	0.000002	0.000	0.00000000340
									0.00030	0.000013	0.002	0.000000002210
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):												
					0.002476	0.310	0.00000420920		0.000249		0.031	0.000000042330
08048DA	PAPRIKA	0.002	P		0.000006	0.001	0.00000001020		0.00025	0.000001	0.000	0.000000000170
	00 NOT SPECIFIED (NO CONSUMPTION)											
CROP GROUP TOTALS FOR HERBS AND SPICES:												
					0.000006	0.001	0.00000001020		0.000001		0.000	0.000000000170
53001BA	BEEF-MEAT BYPRODUCTS	0.000	N		0.000002	0.000	0.000000000340		0.00014	0.000002	0.000	0.000000000340
	21 COOKED-NFS								0.00014	0.000000	0.000	0.000000000000
53001BB	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.000	N		0.000000	0.000	0.000000000000		0.00001	0.000000	0.000	0.000000000000
	BEEF(ORGAN MEATS)-OTHER								0.00001	0.000000	0.000	0.000000000000
	21 COOKED-NFS								0.00001	0.000000	0.000	0.000000000000
53001DA	51 COOKED-CANNED	0.000	N		0.000000	0.000	0.000000000000		0.00001	0.000000	0.000	0.000000000000
	BEEF-DRIED											
53001FA	21 COOKED-NFS	0.000	N		0.000052	0.007	0.000000008840		0.00014	0.000000	0.000	0.000000000000
	BEEF(BONELESS)-FAT (BEEF TALLOW)								0.00014	0.000021	0.003	0.000000003570
	10 RAW-FRESH OR NFS								0.00014	0.000003	0.000	0.000000000510
	21 COOKED-NFS								0.00014	0.000005	0.001	0.000000000850
	22 COOKED-FRESH-BAKED								0.00014	0.000020	0.003	0.000000003400
	23 COOKED-FRESH-BOILED								0.00014	0.000003	0.000	0.000000000510
	24 COOKED-FRESH-BROILED											
	25 COOKED-FRESH-FRIED											
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.000	N		0.000000	0.000	0.000000000000		0.00001	0.000000	0.000	0.000000000000
	21 COOKED-NFS											
53001LA	BEEF(ORGAN MEATS)-LIVER	0.000	N		0.000000	0.000	0.000000000000		0.00001	0.000000	0.000	0.000000000000
	25 COOKED-FRESH-FRIED								0.00001	0.000000	0.000	0.000000000000
	31 COOKED-FRESH OR CANNED								0.00001	0.000000	0.000	0.000000000000
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.000	N		0.000012	0.002	0.000000002040		0.00001	0.000000	0.000	0.000000000000
	10 RAW-FRESH OR NFS								0.00001	0.000007	0.001	0.00000001190
	21 COOKED-NFS								0.00001	0.000000	0.000	0.000000000000
	22 COOKED-FRESH-BAKED								0.00001	0.000000	0.000	0.000000000000
	23 COOKED-FRESH-BOILED								0.00001	0.000001	0.000	0.000000000170
	24 COOKED-FRESH-BROILED								0.00001	0.000003	0.000	0.000000000510
53002BA	GOAT-MEAT BYPRODUCTS	0.000	N		0.000000	0.000	0.000000000000		0.00014	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)											
53002BB	GOAT(ORGAN MEATS)-OTHER	0.000	N		0.000000	0.000	0.000000000000		0.00001	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)											

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
HCN from PCB (3/9/93 run)	130 wk feeding- rat	NOEL= 0.0800 mg/kg	hepatic centrilobular	PLD UF -->100	Chronic feeding-2 sp.	Reproductive-in-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88
Caswell #99HCB	0.00 ppm	0.00 ppm	basophilic chromogenesis	OPP RfD= 0.000800				
CAS No.	LEL= 0.0000 mg/kg	0.00 ppm		EPA RfD= 0.000800				
A.I. CODE:	ONCO: Group B2			Q*: 1.70000				
CFR No. 180.								

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED		%RFD	ARC (UG/KG/DAY)	ONCO RISK
			TYPE	TMRC				RESIDUE (PPM)	ARC			
53002FA	GOAT(BONELESS)-FAT 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00014	0.000000	0.000	0.000000000000	0.000000000000
53002KA	GOAT(ORGAN MEATS)-KIDNEY 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53002LA	GOAT(ORGAN MEATS)-LIVER 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT) 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53003AA	HORSE 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00014	0.000000	0.000	0.000000000000	0.000000000000
53005BA	SHEEP-MEAT BYPRODUCTS 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00014	0.000000	0.000	0.000000000000	0.000000000000
53005BB	SHEEP(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53005FA	SHEEP(BONELESS)-FAT 21 COOKED-NFS	0.000	N	0.000001	0.000	0.000	0.000000000170	0.00014	0.000001	0.000	0.000000000170	0.000000000170
53005KA	SHEEP(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53005LA	SHEEP(ORGAN MEATS)-LIVER 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT) 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53006BA	PORK-MEAT BYPRODUCTS 21 COOKED-NFS	0.000	N	0.000004	0.001	0.001	0.000000000680	0.00014	0.000004	0.001	0.000000000680	0.000000000680
53006BB	PORK(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD) 26 COOKED-FRESH-PICKLED, CORNED, OR CURED 10 RAW-FRESH OR NFS	0.000	N	0.000029	0.004	0.004	0.000000004930	0.00014	0.000000	0.000	0.000000000000	0.000000000000
	21 COOKED-NFS							0.00014	0.000014	0.002	0.00000002380	0.00000002380
	23 COOKED-FRESH-BOILED							0.00014	0.000003	0.000	0.00000000510	0.00000000510
	25 COOKED-FRESH-FRIED							0.00014	0.000003	0.000	0.00000000510	0.00000000510
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							0.00014	0.000009	0.001	0.00000001530	0.00000001530
53006KA	PORK(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
53006LA	PORK(ORGAN MEATS)-LIVER 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000000000000
	25 COOKED-FRESH-FRIED							0.00001	0.000000	0.000	0.000000000000	0.000000000000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCNB (3/9/93 run) Caswell #99HCB CAS No. A.I. CODE: CFR No. 180.		130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis		PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 Q*: 1.70000		Chronic feeding-2 sp. Reproductin-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88	

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMR	TMR	REFERENCE DOSES		TMR	TMR	ANTICIPATED		ARC	ONCO RISK
			TYPE	(UG/KG/DAY)			%RFD	ONCO RISK			RESIDUE (PPM)	(UG/KG/DAY)		
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.000	N	0.000004	0.001	0.000000000680	0.001	0.000000000680	0.00001	0.000002	0.000	0.00000000340	0.000	0.00000000340
	21 COOKED-NFS								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	25 COOKED-FRESH-FRIED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	26 COOKED-FRESH-PICKLED,CORNE,OR CURED								0.00001	0.000002	0.000	0.00000000340	0.000	0.00000000340
CROP GROUP TOTALS FOR RED MEAT:														
				0.000104	0.013	0.00000017680	0.013	0.00000017680	0.000103	0.000000	0.013	0.00000017510	0.013	0.00000017510
55008BA	TURKEY-BYPRODUCTS	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
	21 COOKED-NFS								0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
55008LA	TURKEY-GIBLETS (LIVER)	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00020	0.000000	0.000	0.000000000000	0.000	0.000000000000
	21 COOKED-NFS								0.00020	0.000000	0.000	0.000000000000	0.000	0.000000000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	21 COOKED-NFS								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	31 COOKED-FRESH OR CANNED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	62 COOKED-FRESH OR FROZEN-BAKED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
55008MB	TURKEY-FLESH(+SKIN,W/O BONES)	0.000	N	0.000043	0.005	0.000000007310	0.005	0.000000007310	0.00090	0.000041	0.005	0.000000006970	0.005	0.000000006970
	21 COOKED-NFS								0.00090	0.000003	0.000	0.00000000510	0.000	0.00000000510
55008MC	TURKEY-UNSPECIFIED	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
	21 COOKED-NFS								0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
55013BA	POULTRY,OTHER-BYPRODUCTS	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)								0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
55013LA	POULTRY,OTHER-GIBLETS(LIVER)	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00020	0.000000	0.000	0.000000000000	0.000	0.000000000000
	25 COOKED-FRESH-FRIED								0.00020	0.000000	0.000	0.000000000000	0.000	0.000000000000
55013MA	POULTRY,OTHER-FLESH (+SKIN,W/O BONES)	0.000	N	0.000005	0.001	0.000000000850	0.001	0.000000000850	0.00090	0.000005	0.001	0.000000000850	0.001	0.000000000850
	21 COOKED-NFS								0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
55015BA	CHICKEN-BYPRODUCTS	0.000	N	0.000000	0.000	0.000000000000	0.000	0.000000000000	0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)								0.00090	0.000000	0.000	0.000000000000	0.000	0.000000000000
55015LA	CHICKEN-GIBLETS(LIVER)	0.000	N	0.000001	0.000	0.000000000170	0.000	0.000000000170	0.00020	0.000000	0.000	0.000000000000	0.000	0.000000000000
	21 COOKED-NFS								0.00020	0.000001	0.000	0.000000000170	0.000	0.000000000170
55015MA	CHICKEN-FLESH(W/O SKIN,W/O BONES)	0.000	N	0.000001	0.000	0.000000000170	0.000	0.000000000170	0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	22 COOKED-FRESH-BAKED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	25 COOKED-FRESH-FRIED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	31 COOKED-FRESH OR CANNED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
	53 COOKED-CANNED-BOILED								0.00001	0.000000	0.000	0.000000000000	0.000	0.000000000000
55015MB	CHICKEN-FLESH(+SKIN,W/O BONES)	0.000	N	0.000341	0.043	0.000000057970	0.043	0.000000057970	0.00090	0.000186	0.023	0.000000031620	0.023	0.000000031620
	21 COOKED-NFS								0.00090	0.000186	0.023	0.000000031620	0.023	0.000000031620

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION			STUDY TYPE	EFFECTS	REFERENCE DOSES			DATA GAPS/COMMENTS		STATUS
HC8 from PCNB (3/9/93 run)	130 wk feeding- rat	hepatic centrilobular	PLD UF -->100	Chronic feeding-2 sp.	HED complete 05/05/88					
Caswell #99HCB	NOEL= 0.0800 mg/kg	basophilic chromogenesis	OPP RfD= 0.000800	Reproductive-rat	EPA verified 05/26/88					
CAS No.	0.00 ppm		EPA RfD= 0.000800	Developmental-3 sp.						
A.I. CODE:	LEL= 0.0000 mg/kg			Note: studies listed on						
CFR No. 180.	0.00 ppm			RfD cover sheet have not						
ONCO: Group B2			Q*: 1.70000	been Tox reviewed						
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES										
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK	
CROP GROUP TOTALS FOR POULTRY:										
50000DB	MILK-NON-FAT SOLIDS	0.000	N	0.000071	0.009	0.000000012070	0.00090	0.000156	0.020	0.00000026520
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	51 COOKED-CANNED									
50000FA	MILK-FAT SOLIDS	0.000	N	0.000034	0.004	0.000000005780	0.00001	0.000027	0.003	0.00000004590
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	51 COOKED-CANNED									
50000SA	MILK SUGAR (LACTOSE)	0.000	N	0.000000	0.000	0.000000000000	0.00001	0.000007	0.001	0.00000001190
	21 COOKED-NFS									
	51 COOKED-CANNED									
55014AA	EGGS-WHOLE	0.000	N	0.000395	0.049	0.000000067150	0.00001	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	22 COOKED-FRESH-BAKED									
	23 COOKED-FRESH-BOILED									
	25 COOKED-FRESH-FRIED									
55014AB	EGGS-WHITE ONLY	0.000	N	0.000006	0.001	0.000000001020	0.00070	0.000003	0.000	0.000000000510
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	22 COOKED-FRESH-BAKED									
	23 COOKED-FRESH-BOILED									
	25 COOKED-FRESH-FRIED									
55014AC	EGGS-YOLK ONLY	0.000	N	0.000005	0.001	0.000000000850	0.00070	0.000001	0.000	0.000000000170
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	22 COOKED-FRESH-BAKED									
	62 COOKED-FRESH OR FROZEN-BAKED									
	81 COOKED-FROZEN									
55014AD	EGGS-YOLK ONLY	0.000	N	0.000005	0.001	0.000000000850	0.00070	0.000001	0.000	0.000000000170
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	25 COOKED-FRESH-FRIED									
	31 COOKED-FRESH OR CANNED									
CROP GROUP TOTALS FOR DAIRY PRODUCTS:										
		0.000511			0.064	0.000000086870	0.000513		0.064	0.00000087210

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
HCB from PCNB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99HCB		NOEL= 0.0800 mg/kg		basophilic chromogenesis		OPP RfD= 0.000800		Reproductin-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA RfD= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm				Q*: 1.70000		RfD cover sheet have not			
		ONCO: Group B2						been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC (UG/KG/DAY)		%RFD		TMRC ONCO RISK		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD		ARC ONCO RISK	

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

0.014087 1.761 0.00002394790 0.002008 0.251 0.00000341360

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

TABLE 30

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION			STUDY TYPE		EFFECTS		REFERENCE DOSES			DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run) Casswell #99PCB CAS No. A.I. CODE: CFR No. 180.			130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis		PLD	UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88		
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC		%RFD	TMRC ONCO RISK	ANTICIPATED		%RFD	ARC ONCO RISK			
			TYPE (UG/KG/DAY)	TMRC (UG/KG/DAY)			RESIDUE (PPM)	ARC (UG/KG/DAY)					
06002AA	BANANAS-UNSPECIFIED 22 COOKED-FRESH-BAKED	0.010	A	0.000033	0.004	0.00000005610	0.01000	0.000033	0.004	0.00000005610			
06002AB	BANANAS-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.010	A	0.002240	0.280	0.00000380800	0.01000	0.001978 0.000054 0.000209	0.247 0.007 0.026	0.00000336260 0.00000009180 0.00000035530			
06002DA	BANANAS-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.010	A	0.000018	0.002	0.00000003060	0.01000	0.000005 0.000012	0.001 0.002	0.00000000850 0.00000002040			
06016AA	PLANTAINS 21 COOKED-NFS 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.010	A	0.000016	0.002	0.00000002720	0.01000	0.000000 0.000008 0.000008	0.000 0.001 0.001	0.00000000000 0.00000001360 0.00000001360			
270030A	COTTONSEED-OIL 18 PROCESSED OIL	0.100	P	0.002041	0.255	0.00000346970	0.00025	0.000005	0.001	0.00000000850			
27003WA	COTTONSEED-MEAL 18 PROCESSED OIL	0.100	P	0.000012	0.002	0.00000002040	0.00025	0.000000	0.000	0.00000000000			
CROP GROUP TOTALS FOR UNSPECIFIED:					0.004360	0.545	0.00000741200	0.002312	0.289	0.00000393040			
14013AA	POTATOES(WHITE)-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.028	P	0.009522	1.190	0.00001618740	0.00028	0.000013 0.000042 0.000040	0.002 0.005 0.005	0.00000002210 0.00000007140 0.00000006800			
14013AB	POTATOES(WHITE)-UNSPECIFIED 22 COOKED-FRESH-BAKED 22 COOKED-FRESH-BAKED	0.028	P	0.000002	0.000	0.00000000340	0.00028	0.000000	0.000	0.00000000000			
14013AC	POTATOES(WHITE)-PEELED 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.028	P	0.021959	2.745	0.00003733030	0.00028	0.000020 0.000012 0.000121 0.000066	0.003 0.002 0.015 0.008	0.00000003400 0.00000002040 0.00000002570 0.00000011220			
14013DA	POTATOES(WHITE)-DRY 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.028	P	0.000036	0.005	0.000000006120	0.00028	0.000000 0.000000	0.000 0.000	0.00000000000 0.00000000000 *			
14013HA	POTATOES(WHITE)-PEEL ONLY 22 COOKED-FRESH-BAKED	0.028	P	0.000001	0.000	0.000000000170	0.00028	0.000000	0.000	0.00000000000			
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:					0.031520	3.940	0.00005358400	0.000314	0.039	0.0000053380 *			

* DRES anomaly - in a 3/9/93 run using the same AR values for "potatoes-dry", a risk of 1.7E-9 resulted instead of 2E-9; the overall risk from potatoes was 0.00000053550. These higher F's were used in the write-up of these analyses.

poultry-fat AR @ 0.0002 ppm

DATE: 03/16/93

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.		130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis		PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 q*: 1.70000	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88		
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES											
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED		%RFD	ONCO RISK	
							RESIDUE (PPM)	ARC (UG/KG/DAY)			
14007AA	GARLIC	0.028	P	0.000021	0.003	0.00000003570	0.00280	0.000000	0.000	0.000000000000	
	10 RAW-FRESH OR NFS						0.00280	0.000001	0.000	0.000000000170	
	21 COOKED-NFS						0.00280	0.000001	0.000	0.000000000170	
	32 COOKED-FRESH OR CANNED-BAKED										
CROP GROUP TOTALS FOR BULB VEGETABLES:											
				0.000021	0.003	0.00000003570	0.000002	0.000000	0.000	0.000000000340	
13005AA	BROCCOLI	0.001	P	0.000049	0.006	0.000000008330	0.00002	0.000000	0.000	0.000000000000	
	21 COOKED-NFS						0.00002	0.000001	0.000	0.000000000170	
	31 COOKED-FRESH OR CANNED						0.00002	0.000000	0.000	0.000000000000	
	63 COOKED-FRESH OR FROZEN-BOILED										
13006AA	BRUSSEL SPROUTS	0.001	P	0.000007	0.001	0.000000001190	0.00002	0.000000	0.000	0.000000000000	
	21 COOKED-NFS						0.00002	0.000000	0.000	0.000000000000	
	23 COOKED-FRESH-BOILED						0.00002	0.000001	0.000	0.000000000170	
13007AA	CABBAGE-GREEN AND RED	0.001	P	0.000094	0.012	0.000000015980	0.00002	0.000000	0.000	0.000000000000	
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000	
	11 RAW-FRESH-PICKLED,CORNED,OR CURED						0.00002	0.000001	0.000	0.000000000170	
	21 COOKED-NFS										
13008AA	CAULIFLOWER	0.001	P	0.000016	0.002	0.000000002720	0.00002	0.000000	0.000	0.000000000000	
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000	
	21 COOKED-NFS										
13009AA	COLLARDS	0.005	P	0.000094	0.012	0.000000015980	0.00010	0.000000	0.000	0.000000000000	
	51 COOKED-CANNED						0.00010	0.000002	0.000	0.000000000340	
	63 COOKED-FRESH OR FROZEN-BOILED										
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	0.001	P	0.000005	0.001	0.000000000850	0.00002	0.000000	0.000	0.000000000000	
	10 RAW-FRESH OR NFS						0.00002	0.000000	0.000	0.000000000000	
	21 COOKED-NFS										
13011AA	KALE	0.005	P	0.000008	0.001	0.000000001360	0.00010	0.000000	0.000	0.000000000000	
	63 COOKED-FRESH OR FROZEN-BOILED										
13021AA	MUSTARD GREENS	0.005	P	0.000073	0.009	0.000000012410	0.00010	0.000000	0.000	0.000000000000	
	21 COOKED-NFS						0.00010	0.000001	0.000	0.000000000170	
	63 COOKED-FRESH OR FROZEN-BOILED										
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:											
				0.000346	0.043	0.000000058820	0.000006	0.000000	0.001	0.000000001020	

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
PCB from PCNB (3/9/93 run)	130 wk feeding- rat	hepatic centrilobular basophilic chromogenesis	PLD UF -->100	Chronic feeding-2 sp.	HED complete 05/05/88 EPA verified 05/26/88	
Caswell #99PCB	NOEL= 0.0800 mg/kg		OPP RfD= 0.000800	Reproduction-rat		
CAS No.	0.00 ppm		EPA RfD= 0.000800	Developmental-3 sp.		
A.I. CODE:	LEL= 0.0000 mg/kg			Note: studies listed on		
CFR No. 180.	0.00 ppm			RfD cover sheet have not		
	ONCO: Group B2			Q*: 1.70000	been Tox reviewed	

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC		%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
			TYPE (UG/KG/DAY)							
15001AA	BEANS-DRY-GREAT NORTHERN 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15001AB	BEANS-DRY-KIDNEY 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.002	P	0.000034	0.004	0.00000005780	0.00013	0.000001	0.000	0.000000000170
15001AC	BEANS-DRY-LIMA 21 COOKED-NFS	0.002	P	0.000020	0.003	0.00000003400	0.00013	0.000001	0.000	0.000000000170
15001AD	BEANS-DRY-NAVY (PEA) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.002	P	0.000094	0.012	0.00000015980	0.00013	0.000001	0.000	0.000000000170
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.002	P	0.000100	0.013	0.00000017000	0.00013	0.000002	0.000	0.000000000340
15001AF	BEANS-DRY-PINTO 21 COOKED-NFS	0.002	P	0.000091	0.011	0.00000015470	0.00013	0.000005	0.001	0.000000000850
15002AA	BEANS-SUCCULENT-LIMA 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000064	0.008	0.00000010880	0.00013	0.000000	0.000	0.000000000000
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS	0.002	P	0.000500	0.063	0.000000085000	0.00013	0.000025	0.003	0.00000004250
15003AB	BEANS-SUCCULENT-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000066	0.008	0.00000011220	0.00013	0.000000	0.000	0.000000000000
15003AC	BEANS-SUCCULENT-YELLOW,WAX 21 COOKED-NFS	0.002	P	0.000014	0.002	0.00000002380	0.00013	0.000003	0.000	0.000000000510
15006AA	PEANUTS-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.026	P	0.001809	0.226	0.000000307530	0.00013	0.000001	0.000	0.000000000170
15013AA	MUNG BEANS (SPROUTS) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000017	0.002	0.00000002890	0.00013	0.000000	0.000	0.000000000000
15022AA	BEANS-DRY-BROADBEANS(MATURE SEED) 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000001	0.000	0.000000000170
15022AB	BEANS-SUCCULENT-BROADBEANS(IMMAT. SEED) 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15023AA	BEANS-DRY-PIGEON BEANS 21 COOKED-NFS	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15027AA	BEANS-UNSPECIFIED 21 COOKED-NFS	0.002	P	0.000013	0.002	0.00000002210	0.00013	0.000001	0.000	0.000000000170

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99PCB		NOEL= 0.0800 mg/kg		basophilic chromogenes		OPP RfD= 0.000800		Reproduction-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA RfD= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm						RfD cover sheet have not			
		ONCO: Group B2				Q*: 1.70000		been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC		%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
			TYPE	(UG/KG/DAY)						
15030AA	BEANS-DRY-HYACINTH(MATURE SEEDS) 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15030AB	BEANS-SUCCULENT-HYACINTH(YOUNG PODS) 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000000	0.000	0.000000000000	0.00013	0.000000	0.000	0.000000000000
15031AA	BEANS-DRY-BLACKEYE PEAS(COMPEAS) 21 COOKED-NFS	0.002	P	0.000006	0.001	0.00000001020	0.00013	0.000000	0.000	0.000000000000
15032AA	BEANS-DRY-GARBANZO(CHICK PEA) 21 COOKED-NFS	0.002	P	0.000001	0.000	0.000000000170	0.00013	0.000000	0.000	0.000000000000
270070A	31 COOKED-FRESH OR CANNED PEANUTS-OIL 18 PROCESSED OIL	0.026	P	0.000136	0.017	0.00000023120	0.00130	0.000007	0.001	0.00000001190
CROP GROUP TOTALS FOR LEGUME VEGETABLES:										
11003AA	PEPPERS,SHEET,GARDEN 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000054	0.007	0.000000009180	0.00025	0.000002	0.000	0.00000000340
11003AB	CHILI PEPPERS 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000010	0.001	0.000000001700	0.00025	0.000004	0.001	0.00000000680
11003AD	PEPPERS-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000011	0.001	0.000000001870	0.00025	0.000001	0.000	0.00000000170
11004AA	51 COOKED-CANNED PIMIENTOS 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.002	P	0.000005	0.001	0.000000000850	0.00025	0.000000	0.000	0.000000000000
11005AA	31 COOKED-FRESH OR CANNED TOMATOES-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.004	P	0.001968	0.246	0.000000334560	0.00040	0.000100	0.013	0.00000017000
11005JA	31 COOKED-FRESH OR CANNED TOMATOES-JUICE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.004	P	0.000221	0.028	0.000000037570	0.00040	0.000077	0.010	0.00000013090
11005RA	32 COOKED-FRESH OR CANNED-BAKED 51 COOKED-CANNED TOMATOES-PASTE 21 COOKED-NFS	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000019	0.002	0.00000003230
11005TA	10 RAW-FRESH OR NFS TOMATOES-PUREE	0.004	P	0.000158	0.020	0.00000026860	0.00040	0.000001	0.000	0.00000000170
	10 RAW-FRESH OR NFS	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000021	0.003	0.00000003570
	21 COOKED-NFS	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000000	0.000	0.000000000000
	31 COOKED-FRESH OR CANNED	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000038	0.005	0.00000006460
	32 COOKED-FRESH OR CANNED-BAKED	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000007	0.001	0.0000001190
	51 COOKED-CANNED	0.004	P	0.000681	0.085	0.00000115770	0.00040	0.000009	0.001	0.00000001530
	21 COOKED-NFS	0.004	P	0.000158	0.020	0.00000026860	0.00040	0.000014	0.002	0.00000002380
	21 COOKED-NFS	0.004	P	0.000158	0.020	0.00000026860	0.00040	0.000011	0.001	0.00000001870

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION			STUDY TYPE	EFFECTS	REFERENCE DOSES			DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run)		130 wk feeding- rat	hepatic centrilobular	basophilic chromogenesis	PLD UF -->100	Chronic feeding-2 sp.	Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88			
Caswell #99PCB	NOEL=	0.0800 mg/kg			OPP RfD= 0.000800	Reproduction-rat					
CAS No.	LEL=	0.0000 mg/kg			EPA RfD= 0.000800	Developmental-3 sp.					
A.I. CODE:		0.00 ppm									
CFR No. 180.	ONCO: Group B2				Q*: 1.70000						
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES											
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	TMRC	%RFD	ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK	
11005UA	22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED TOMATOES-CATSUP 21 COOKED-NFS	0.004	P	0.000168	0.021	0.00000028560	0.00040 0.00040 0.00040 0.00017	0.000002 0.000003 0.000003 0.000017	0.000 0.000 0.002	0.00000000340 0.00000000510 0.00000002890 0.00000000000	
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):											
			0.003276	0.410	0.00000556920	0.000327	0.041			0.00000055590	
08048DA	PAPRIKA 00 NOT SPECIFIED (NO CONSUMPTION)	0.002	P	0.000006	0.001	0.00000001020	0.00025	0.000001	0.000	0.00000000170	
CROP GROUP TOTALS FOR HERBS AND SPICES:											
			0.000006	0.001	0.00000001020	0.000001	0.000			0.00000000170	
53001BA	BEEF-MEAT BYPRODUCTS 21 COOKED-NFS	0.000	N	0.000001	0.000	0.000000000170	0.00003 0.00003	0.000000 0.000000	0.000 0.000	0.000000000000 0.000000000000	
53001BB	26 COOKED-FRESH-PICKLED, CORNED, OR CURED BEEF(ORGAN MEATS)-OTHER 21 COOKED-NFS 51 COOKED-CANNED	0.000	N	0.000000	0.000	0.000000000000	0.00001 0.00001 0.00000	0.000000 0.000000 0.000000	0.000 0.000 0.000	0.000000000000 0.000000000000 0.000000000000 0.000000000000	
53001DA	BEEF-DRIED 21 COOKED-NFS	0.000	N	0.000000	0.000	0.000000000000	0.00003	0.000000	0.000	0.000000000000	
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.000	N	0.000011	0.001	0.00000001870	0.00003 0.00003 0.00003	0.000000 0.000004 0.000001	0.000 0.001 0.000	0.000000000000 0.00000000680 0.00000000170	
53001KA	23 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BROILED 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000000000000	0.00003 0.00003 0.00003 0.00003	0.000000 0.000004 0.000001 0.000001	0.001 0.001 0.000 0.000	0.00000000680 0.00000000170 0.00000000680 0.00000000170	
53001LA	BEEF(ORGAN MEATS)-LIVER 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.000	N	0.000000	0.000	0.000000000000	0.00001 0.00001 0.00000	0.000000 0.000000 0.000000	0.000 0.000 0.000	0.000000000000 0.000000000000 0.000000000000	
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.000	N	0.000035	0.004	0.000000005950	0.00003 0.00003 0.00003	0.000000 0.000021 0.000001	0.000 0.003 0.000	0.000000000000 0.00000003570 0.00000000170	
53002BA	22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BROILED GOAT-MEAT BYPRODUCTS	0.000	N	0.000000	0.000	0.000000000000	0.00003 0.00003 0.00003 0.00003	0.000000 0.000002 0.000010 0.000000	0.000 0.000 0.001 0.000	0.000000000000 0.00000000340 0.00000001700 0.000000000000	
53002BB	00 NOT SPECIFIED (NO CONSUMPTION) GOAT(ORGAN MEATS)-OTHER 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000000000000	0.00003 0.00001	0.000000 0.000000	0.000 0.000	0.000000000000 0.000000000000	

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/16/93

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99PCB		NOEL= 0.0800 mg/kg		basophilic chromogenesis		OPP RfD= 0.000800		Reproduction-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA RfD= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm						RfD cover sheet have not			
		ONCO: Group B2				Q*: 1.70000		been Tox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMRC (UG/KG/DAY)	%RFD	REFERENCE DOSES		TMRC	ANTICIPATED		ONCO RISK
			TYPE	TYPE (UG/KG/DAY)			PLD	UF		RESIDUE (PPM)	ARC (UG/KG/DAY)	
53002FA	GOAT(BONELESS)-FAT	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	23 COOKED-FRESH-BOILED									0.00003	0.000000	0.000000000000
53002KA	GOAT(BONELESS)-FAT	0.000	N	0.000000	0.000	0.0000000000000000				0.00001	0.000000	0.000000000000
	25 COOKED-FRESH-FRIED									0.00001	0.000000	0.000000000000
53002LA	GOAT(ORGAN MEATS)-LIVER	0.000	N	0.000000	0.000	0.0000000000000000				0.00001	0.000000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									0.00001	0.000000	0.000000000000
53002MA	GOAT(ORGAN MEATS)-LIVER	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									0.00003	0.000000	0.000000000000
53002NA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	23 COOKED-FRESH-BOILED									0.00003	0.000000	0.000000000000
53003AA	HORSE	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									0.00003	0.000000	0.000000000000
53005BA	SHEEP-MEAT BYPRODUCTS	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53005BB	SHEEP(ORGAN MEATS)-OTHER	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53005FA	SHEEP(BONELESS)-FAT	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53005LA	SHEEP(ORGAN MEATS)-LIVER	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									0.00001	0.000000	0.000000000000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000000	0.000000000000
	21 COOKED-NFS									0.00003	0.000000	0.000000000000
53006BA	PORK-MEAT BYPRODUCTS	0.000	N	0.000001	0.000	0.0000000000000000				0.00003	0.000001	0.000000000000
	31 COOKED-FRESH OR CANNED									0.00001	0.000000	0.000000000000
53006BB	PORK(ORGAN MEATS)-OTHER	0.000	N	0.000000	0.000	0.0000000000000000				0.00001	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.000	N	0.000006	0.001	0.0000000000000000				0.00003	0.000000	0.000000000000
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED									0.00001	0.000000	0.000000000000
	10 RAW-FRESH OR NFS									0.00001	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
	23 COOKED-FRESH-BOILED									0.00003	0.000000	0.000000000000
	25 COOKED-FRESH-FRIED									0.00003	0.000001	0.000000000000
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED									0.00003	0.000001	0.000000000000
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.000	N	0.000000	0.000	0.0000000000000000				0.00003	0.000002	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
53006LA	PORK(ORGAN MEATS)-LIVER	0.000	N	0.000000	0.000	0.0000000000000000				0.00001	0.000000	0.000000000000
	21 COOKED-NFS									0.00001	0.000000	0.000000000000
	25 COOKED-FRESH-FRIED									0.00001	0.000000	0.000000000000

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/16/93

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run) Caswell #99PCB CAS No. A.I. CODE: CFR No. 180.		130 wk feeding- rat NOEL= 0.0800 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO: Group B2		hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800 q*: 1.70000			Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed		HED complete 05/05/88 EPA verified 05/26/88	

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMRC (UG/KG/DAY)	%RFD	REFERENCE DOSES		TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
			TYPE	TYPE (UG/KG/DAY)			PLD UF -->100	OPP RfD= 0.000800					
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT) 21 COOKED-NFS 25 COOKED-FRESH-FRIED 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.000	N	0.000012	0.002	0.00000002040			0.00000002040	0.00003	0.000005	0.001	0.00000000850
CROP GROUP TOTALS FOR RED MEAT:													
				0.000066	0.008	0.00000011220				0.000064		0.008	0.00000010880
55008BA	TURKEY-BYPRODUCTS 21 COOKED-NFS 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.000	N	0.000000	0.000	0.000000000000				0.00020	0.000000	0.000	0.000000000000
55008LA	TURKEY-GIBLETS (LIVER) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000000000000				0.00001	0.000000	0.000	0.000000000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	0.000	N	0.000000	0.000	0.000000000000				0.00001	0.000000	0.000	0.000000000000
55008MB	TURKEY-FLESH(+SKIN, W/O BONES) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.000	N	0.000010	0.001	0.000000001700				0.00020	0.000009	0.001	0.00000001530
55008MC	TURKEY-UNSPECIFIED 21 COOKED-NFS POULTRY, OTHER-BYPRODUCTS	0.000	N	0.000000	0.000	0.000000000000				0.00020	0.000000	0.000	0.000000000000
55013BA	POULTRY, OTHER-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000000000000				0.00020	0.000000	0.000	0.000000000000
55013LA	POULTRY, OTHER-GIBLETS(LIVER) 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000000000000				0.00001	0.000000	0.000	0.000000000000
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES) 21 COOKED-NFS CHICKEN-BYPRODUCTS	0.000	N	0.000001	0.000	0.000000000170				0.00020	0.000001	0.000	0.00000000170
55015BA	CHICKEN-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.000	N	0.000000	0.000	0.000000000000				0.00020	0.000000	0.000	0.000000000000
55015LA	CHICKEN-GIBLETS(LIVER) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.000	N	0.000000	0.000	0.000000000000				0.00001	0.000000	0.000	0.000000000000
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES) 21 COOKED-NFS 22 COOKED-FRESH-BAKED 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED 53 COOKED-CANNED-BOILED	0.000	N	0.000001	0.000	0.000000000170				0.00001	0.000000	0.000	0.000000000000
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES) 21 COOKED-NFS	0.000	N	0.000076	0.010	0.00000012920				0.00020	0.000041	0.005	0.000000006970

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
PCB from PCNB (3/9/93 run)	130 wk feeding- rat	NOEL= 0.0800 mg/kg 0.00 ppm	hepatic centrilobular basophilic chromogenesis	PLD UF -->100 OPP RfD= 0.000800 EPA RfD= 0.000800	Chronic feeding-2 sp. Reproduction-rat Developmental-3 sp. Note: studies listed on RfD cover sheet have not been Tox reviewed	HED complete 05/05/88 EPA verified 05/26/88		
Caswell #99PCB	LEL= 0.0000 mg/kg 0.00 ppm							
A.I. CODE:	ONCO: Group B2				Q*: 1.70000			
CFR No. 180.								

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK
CROP GROUP TOTALS FOR POULTRY:										
25	COOKED-FRESH-FRIED			0.000088	0.011	0.00000014960	0.00020	0.000035	0.004	0.00000005950
50000DB	MILK-NON-FAT SOLIDS	0.000	N	0.000071	0.009	0.00000012070	0.00001	0.000057	0.007	0.00000009690
	10 RAW-FRESH OR NFS						0.00001	0.000012	0.002	0.00000002040
	21 COOKED-NFS						0.00001	0.000003	0.000	0.00000000510
50000FA	MILK-FAT SOLIDS	0.000	N	0.000034	0.004	0.00000005780	0.00001	0.000027	0.003	0.00000004590
	10 RAW-FRESH OR NFS						0.00001	0.000007	0.001	0.00000001190
	21 COOKED-NFS						0.00001	0.000000	0.000	0.00000000000
50000SA	MILK SUGAR (LACTOSE)	0.000	N	0.000000	0.000	0.00000000000	0.00001	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00001	0.000000	0.000	0.00000000000
55014AA	EGGS-WHOLE	0.000	N	0.000006	0.001	0.00000001020	0.00001	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS						0.00001	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00001	0.000003	0.000	0.00000000510
	22 COOKED-FRESH-BAKED						0.00001	0.000001	0.000	0.00000000170
	23 COOKED-FRESH-BOILED						0.00001	0.000000	0.000	0.00000000000
	25 COOKED-FRESH-FRIED						0.00001	0.000002	0.000	0.00000000340
55014AB	EGGS-WHITE ONLY	0.000	N	0.000000	0.000	0.00000000000	0.00001	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS						0.00001	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00001	0.000000	0.000	0.00000000000
	22 COOKED-FRESH-BAKED						0.00001	0.000000	0.000	0.00000000000
	62 COOKED-FRESH OR FROZEN-BAKED						0.00001	0.000000	0.000	0.00000000000
	81 COOKED-FROZEN						0.00001	0.000000	0.000	0.00000000000
55014AC	EGGS-YOLK ONLY	0.000	N	0.000000	0.000	0.00000000000	0.00001	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS						0.00001	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00001	0.000000	0.000	0.00000000000
	25 COOKED-FRESH-FRIED						0.00001	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00001	0.000000	0.000	0.00000000000
CROP GROUP TOTALS FOR DAIRY PRODUCTS:										
				0.000111	0.014	0.00000018870		0.000112	0.014	0.00000019040

poultry eggs 1.5810 E-7
(1.6)

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
PCB from PCNB (3/9/93 run)		130 wk feeding- rat		hepatic centrilobular		PLD UF -->100		Chronic feeding-2 sp.		HED complete 05/05/88	
Caswell #99PCB		NOEL= 0.0800 mg/kg		basophilic chromogenesis		OPP Rfd= 0.000800		Reproduction-rat		EPA verified 05/26/88	
CAS No.		0.00 ppm				EPA Rfd= 0.000800		Developmental-3 sp.			
A.I. CODE:		LEL= 0.0000 mg/kg						Note: studies listed on			
CFR No. 180.		0.00 ppm						Rfd cover sheet have not			
		ONCO: Group B2				Q*: 1.70000		been Iox reviewed			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC (UG/KG/DAY)		TMRC ONCO RISK		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD		ONCO RISK	

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

0.042759 5.345 0.00007269030 0.003373 0.422 0.00000573410

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

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